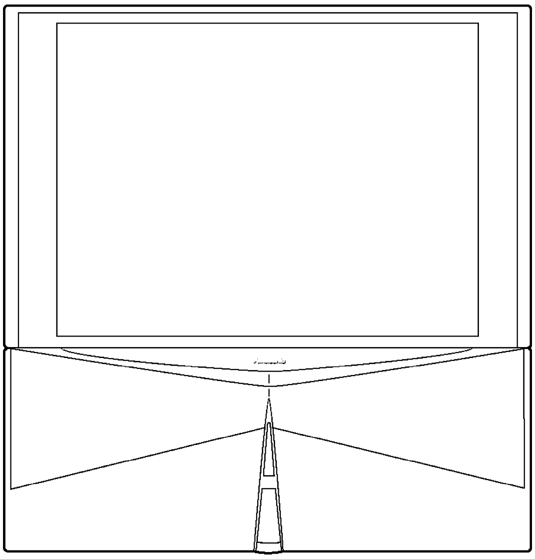
ORDER NO. ITD0308032C3

Projection Television

TX-51P800X / TX-51P800HM / TX-51P800HQ / TX-43P800X / TX-43P800HM / TX-43P800HQ / TX-43P800HZ

GP1VP



SPECIFICATIONS

Specifications

	TX-43P800H / TX-51P800H	TX-43P800X / TX-51P800X
Power Source	**AC 220 - 240 V, 50 / 60 Hz**	**AC 110 - 240 V, 50 / 60 Hz**
Power Consumption	**Stand-by condition 0.5 W** **Normal viewing 175 W**	**Stand-by condition 0.5 W** **Normal viewing 175 W**
	TX-43P800H / X	**TX-51P800H / X**
Dimensions (W × H × D)	**1095 mm × 1267.5 mm × 547 mm**	**1298 mm × 1394 mm × 547 mm**
Mass (Weight)	**60 kg (Net)**	**66 kg (Net)**
Remote control Transmitter	**EUR511254** **R6 (AA) Battery × 2**	

Receiving System

21 Systems		Function
1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders.
2	PAL I	
3	PAL D, K	
4	SECAM B, G	
5	SECAM D, K	
6	SECAM K1	
7	NTSC M (NTSC 3.58/4.5 MHz)	

21 Systems		Function
15	PAL 60 Hz/5.5 MHz	Playback from Special Disc Players and Special VCR's
16	PAL 60 Hz/6.0 MHz	
17	PAL 60 Hz/6.5 MHz	
18	SECAM 60 Hz/5.5 MHz	
19	SECAM 60 Hz/6.0 MHz	
20	SECAM 60 Hz/6.5MHz	
21	NTSC 50 Hz/ 4.5 MHz	

21 Systems		Function
8	NTSC 4.43/5.5 MHz	Playback from Special VCR's
9	NTSC 4.43/6.0 MHz	
10	NTSC 4.43/6.5 MHz	
11	NTSC 3.58/5.5 MHz	
12	NTSC 3.58/6.0 MHz	
13	NTSC 3.58/6.5 MHz	
14	SECAM I	

Receiving Channels **Regular TV**

VHF BAND

2-12 (PAL/SECAM B, K1)
0-12 (PAL B AUST.)
1-9 (PAL B N.Z)
1-12 (PAL/SECAM D)

	1-12 (NTSC M Japan)	
	2-13 (NTSC M U.S.A)	
	UHF BAND	
	21-69 (PAL G, H, I/SECAM G, K, K1)	
	28-69 (PAL AUST.)	
	13-57 (PAL D, K)	
	13-62 (NTSC M Japan)	
	14-69 (NTSC M U.S.A)	
	CATV	
	S1-S20 (OSCAR)	
	1-125 (U.S.A CATV)	
	C13-C49 (JAPAN)	
	S21-S41 (HYPER)	
	Z1-Z37 (CHINA)	
	5A, 9A (AUST.)	
Receiving Stereo System	NICAM I, NICAM B/G, NICAM D, A2 (German)	
Tuning System	Frequency synthesizer	Auto Search Tuning POSITION: 100 Position DIRECT: 125 Position
Audio Output	40 W [20 W + 20 W] (10 % THD)	
Speaker System	Woofer (13 cm) × 2 + Squawker (12 cm × 6 cm) × 2.....TX-43P800H/X Woofer (13 cm) × 2 + Squawker (12 cm × 6 cm) × 2 + Tweeter(5 cm) × 2.....TX-51P800H/X	
Headphones	3.5 mm Plug × 1	
Aerial Impedance	75 Ω Unbalanced coaxial	
Video / Audio / Component Terminals		
AV 1, 2, 3, 4,	S Video In	Y: 1 V p-p, 75 Ω C: 0.3 V p-p, 75 Ω
	DVD (Y/ PB / PR)	
	Video In	1 V p-p, 75 Ω
	Audio In	Approx. 0.5 V 47 K Ω
Monitor Out	Video Out	1 V p-p, 75 Ω
	Audio Out	Approx. 0.5 V, 1 K Ω

AV1 IN (Rear): S Video, Video, Audio L/R terminals
AV2 IN (Rear): Video or Y/ PB / PR , Audio L/R terminals
AV3 IN (Front): S Video,Video, Audio L/R terminals
AV4 IN (Rear): Video or Y/ PB / PR , Audio L/R terminals
Applicable signal to AV2, AV4 Y/ PB / PR input terminals: 480i (525i),576i (625i), 480P (525P) and 576P (625P)

Notes: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

© 2003 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

1. Safety Precautions

1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.
   If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as 30.0kV , is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted byanyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling

the tube.

6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

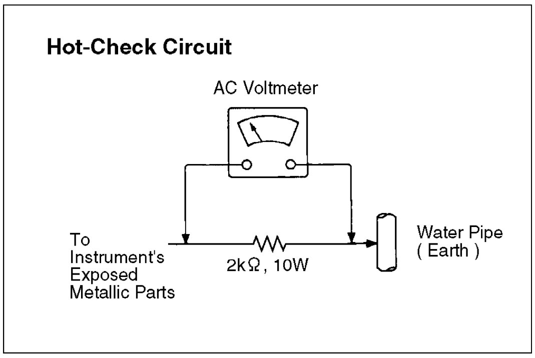
1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the Projection Monitor's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a returnpath to the chassis, the reading should be between 4 MΩ and 20 MΩ. When the exposed metal does not have a return path to the chassis, the reading must be∞.

1.3. Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ, 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to thecustomer.

Fig. 1


Hot-Check Circuit
AC Voltmeter
To
Instrument's
Exposed
Metallic Parts
2kΩ, 10W
Water Pipe
(Earth)

1.4. X-Radiation

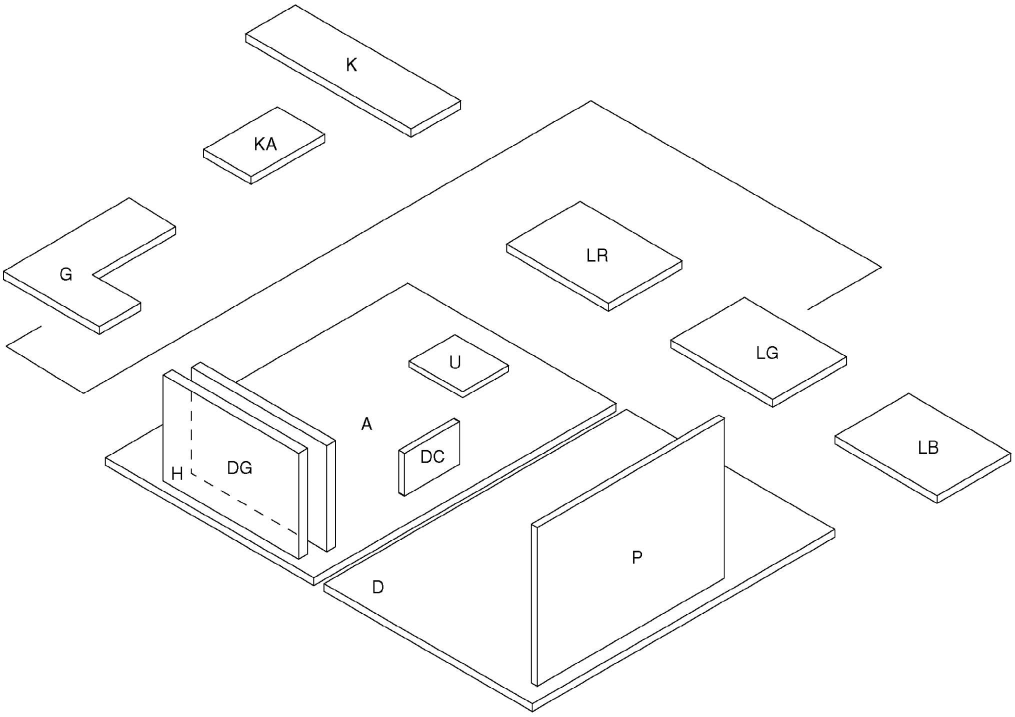
Warning :

1. **The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.**
2. **When using a projection tube test jig for service, ensure that jig is capable of handling 30.0kV without causing X-Radiation.**

Note:
It is important use an accurate periodically calibrated high voltage meter.

1. **Set the brightness to minimum.**
2. **Set the service switch to the service position.**
3. **Measure the High Voltage. The meter reading should indicate 30.0 ± 1.0 kV . If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.**
4. **To prevent an X-Radiation possibility, it is essential to use the specified projection tube.**

2. Chassis Board Layout

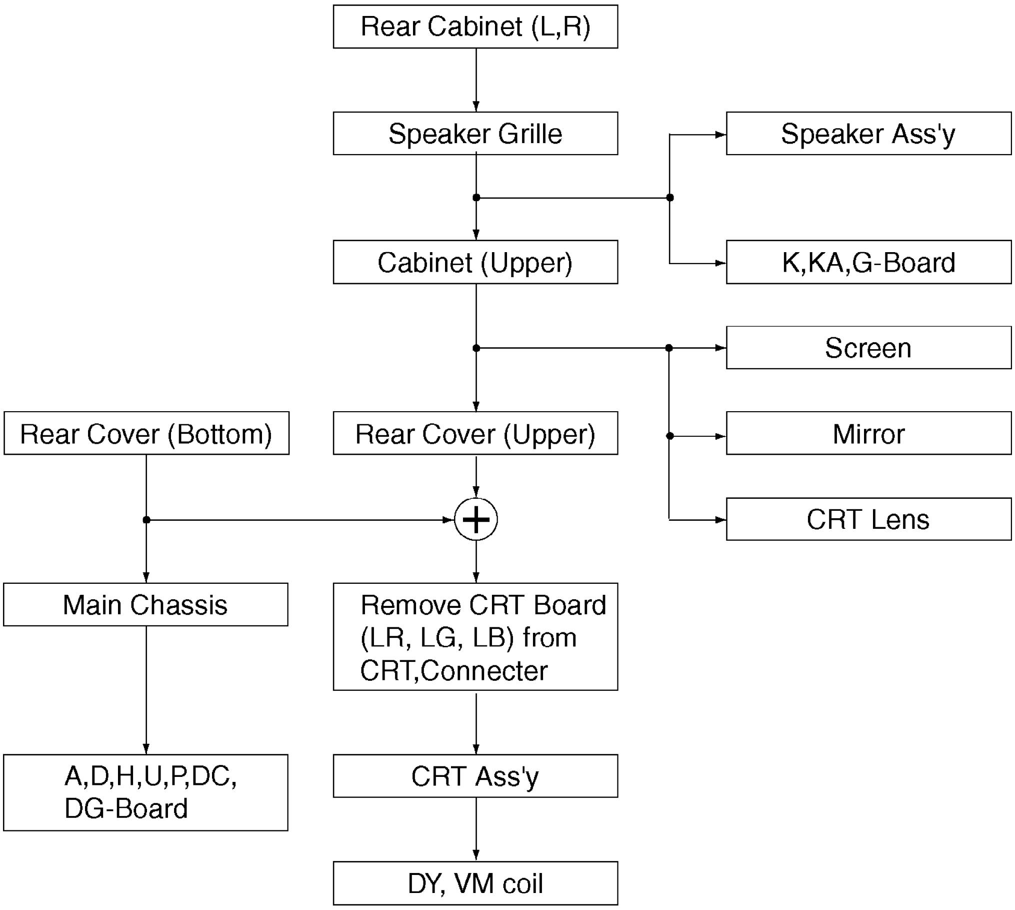


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
H-Board	Rear terminal
U-Board	MPU
DG-Board	Digital Core
DC-Board	Convergence
G-Board	Front Terninal
K-Board	Power Switch
KA-Board	Blue light

3. Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

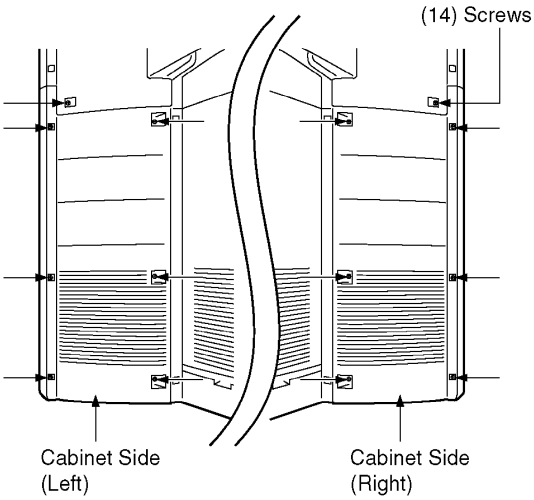
3.1. Disassembly Flowchart


Rear Cabinet (L,R)
Speaker Grille
Speaker Ass'y
Cabinet (Upper)
K,KA,G-Board
Screen
Rear Cover (Bottom)
Rear Cover (Upper)
Mirror
CRT Lens
Main Chassis
Remove CRT Board (LR, LG, LB) from CRT,Connecter
A,D,H,U,P,DC, DG-Board
CRT Ass'y
DY, VM coil

Note:
Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

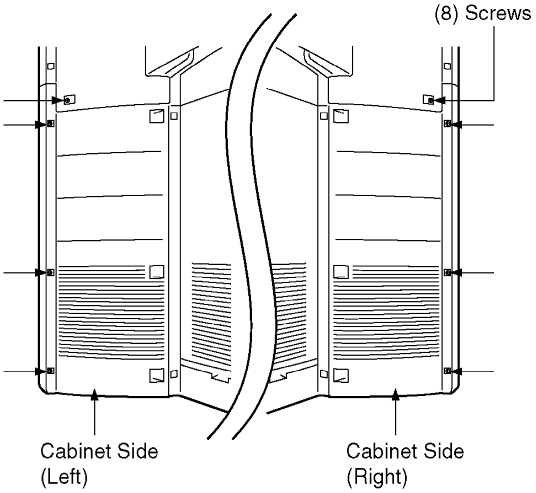
3.2. Cabinet Side (L, R)

1. Remove (14) screws.

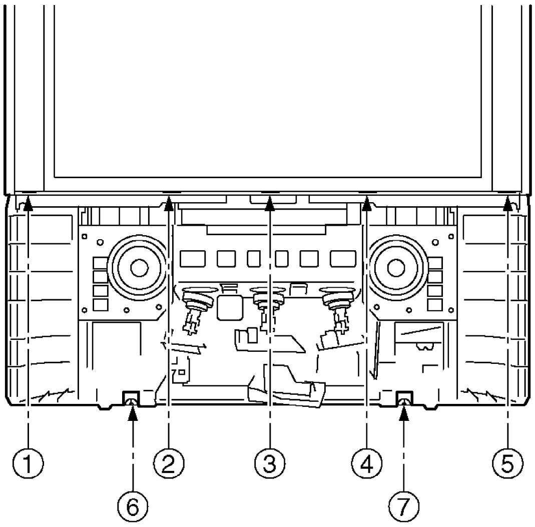

(14) Screws
Cabinet Side (Left)
Cabinet Side (Right)

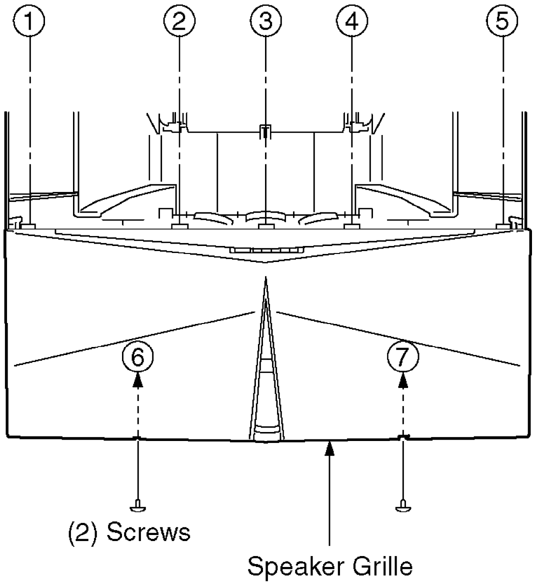
3.3. Speaker Grille

1. Remove (8) screws.


(8) Screws
Cabinet Side
(Left)
Cabinet Side
(Right)

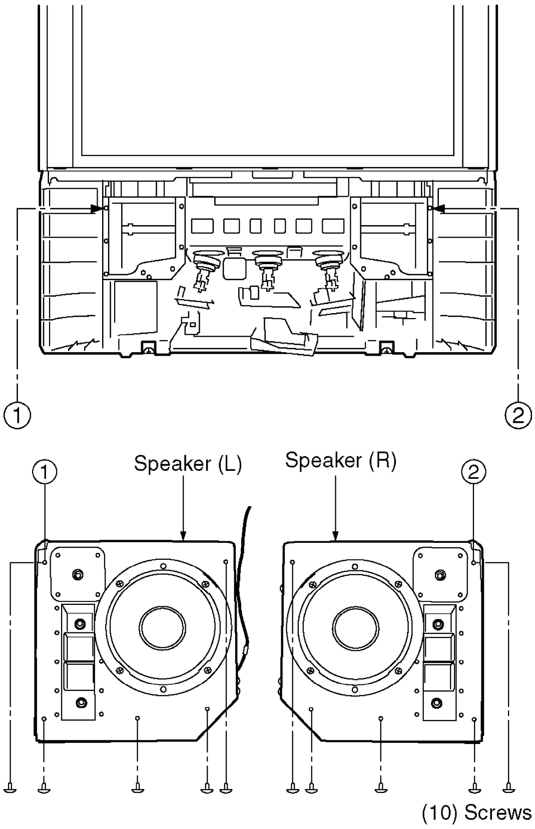
2. Remove (2) screws.




①
②
③
④
⑤
⑥
⑦
(2) Screws
Speaker Grille

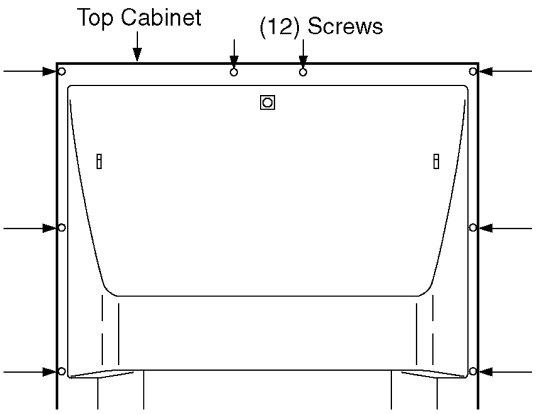
3.4. Speaker Ass'y

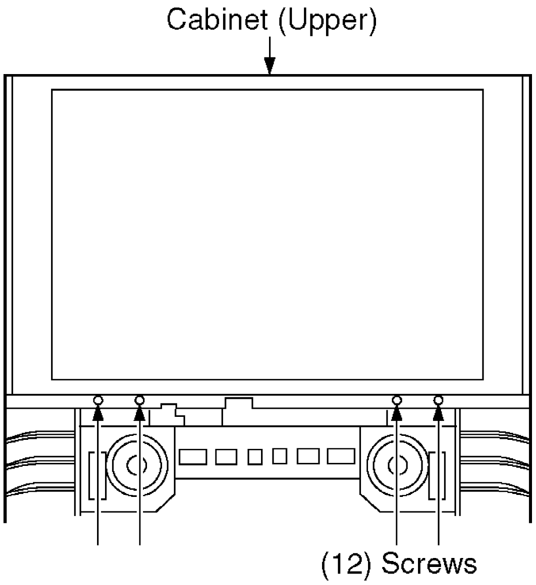
1. Remove (10) screws.


①
②
①
Speaker (L)
Speaker (R)
②
(10) Screws

3.5. Cabinet (Upper)

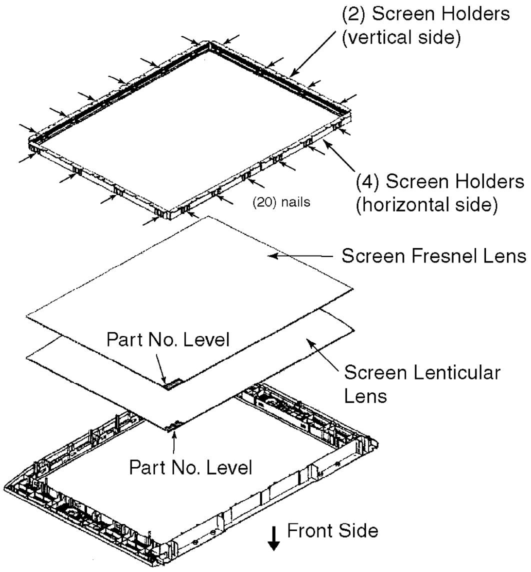
1. Remove (12) Screws.


Top Cabinet
(12) Screws


Cabinet (Upper)
(12) Screws

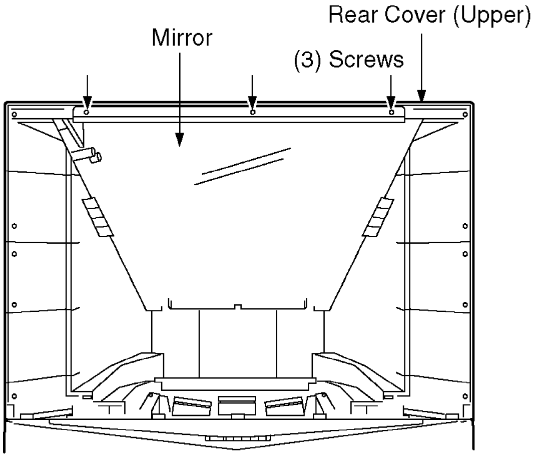
3.6. Screen

1. Remove (20) nails, and remove (2) Screen Holders (vertical side) and (4) Screen Holders (horizontal side).


(2) Screen Holders
(vertical side)
(4) Screen Holders
(horizontal side)
(20) nails
Screen Fresnel Lens
Part No. Level
Screen Lenticular
Lens
Part No. Level
Front Side

3.7. Mirror

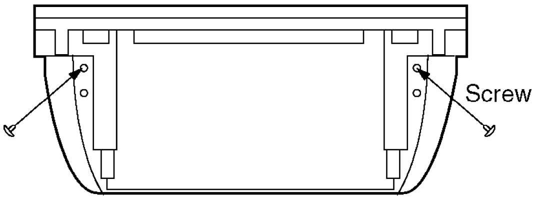
1. Remove (3) screws.


Rear Cover (Upper)
Mirror
(3) Screws

3.8. Rear Cover (Upper)

1. Remove the Cabinet (Upper).

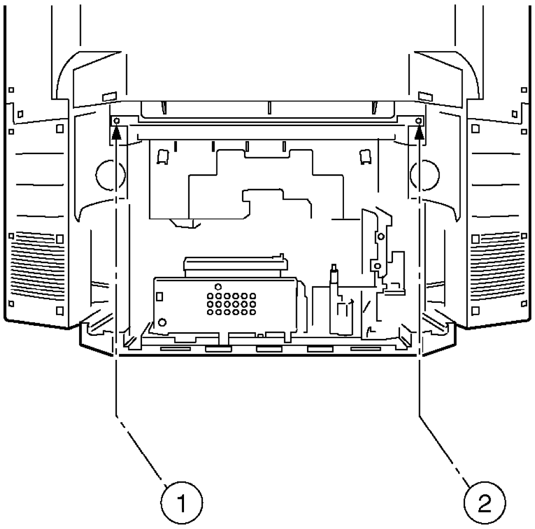
2. Remove (2) screws.

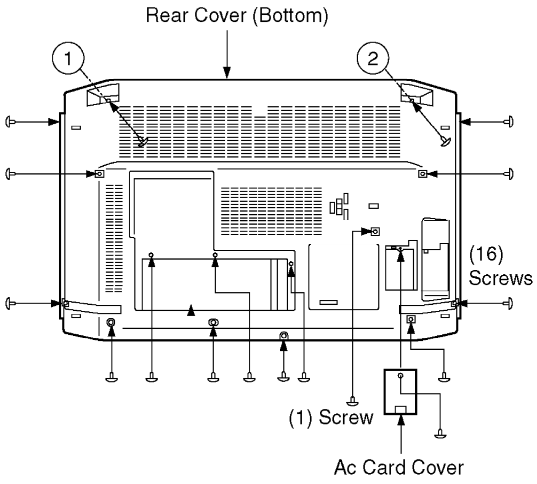


3.9. Rear Cover (Bottom)

1. Remove (16) screws.

2. Remove (1) screw.

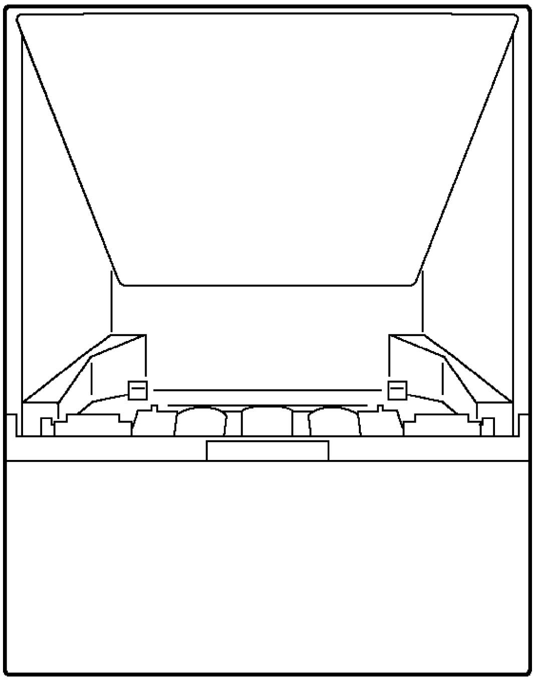



Rear Cover (Bottom)
①
②
(16) Screws
(1) Screw
Ac Card Cover

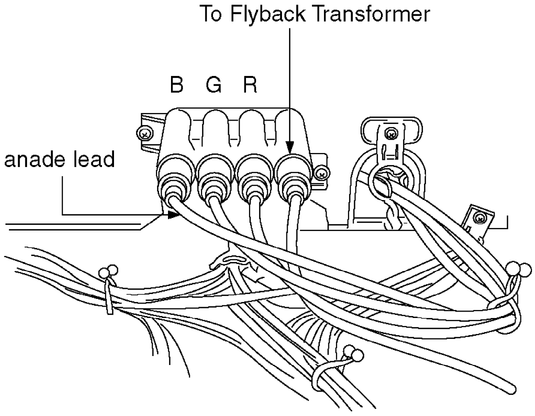
3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

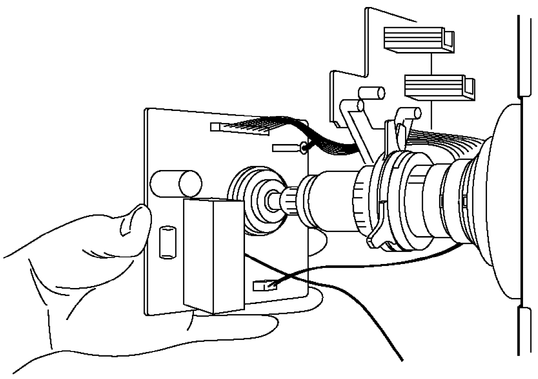
1. Remove the Screen Frame Ass'y, Decorative Panel and the Bottom Rear Cover Ass'y. (See Disassemble for Service).



2. Unplug the defective CRT Dag (GND), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
3. Remove lead wires (DY, VM coil) and anode lead wire from holders as necessary.

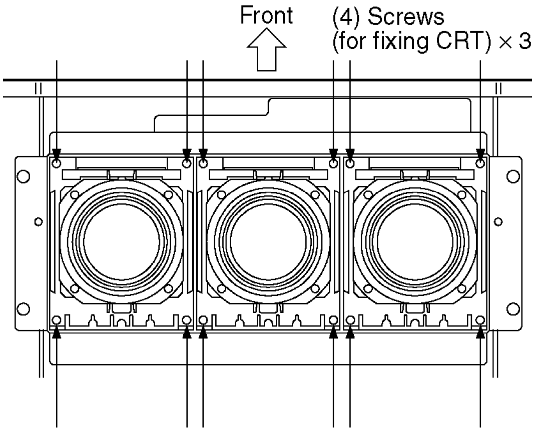

To Flyback Transformer
B G R
anade lead

4. Remove the CRT Board from the defective CRT neck.



5. Note position of yoke with centering tabs and remove from defective CRT.

6. From the Top, remove (2) screws from the defective CRT.



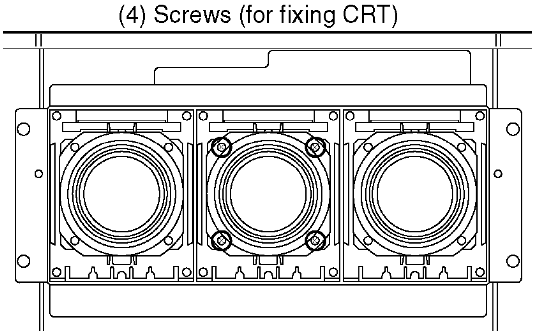
7. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.

8. Wire the anode lead wire.

9. Lift out CRT assembly with lens assembly and other CRT neck assemblies.

10. Lay CRT face down on a soft cloth.

11. Remove CRT lens by removing (4) screws.

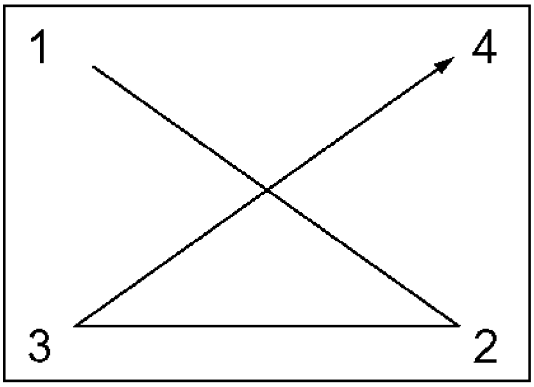


12. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.

13. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.

14. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on

other CRT focus lens.

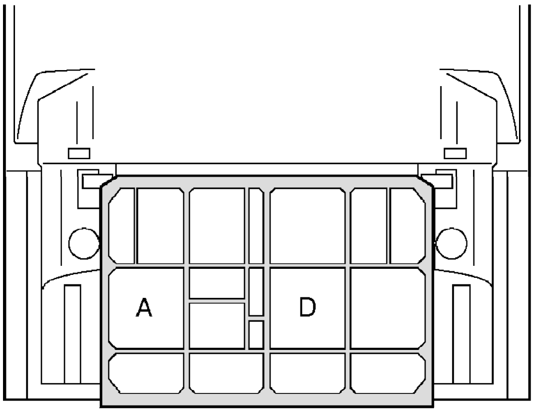


Note:
Please assemble with screws in the order shown in detail and tighten with same torque.

4. Service Hints

4.1. Service position for Main chassis

1. **Remove the Rear Cover (Bottom) by removing (16) screws and (1) screws around its perimeter.**
2. **Remove lead wires and bundles from holders as necessary.**
3. **Pull out main chassis and stand it.**



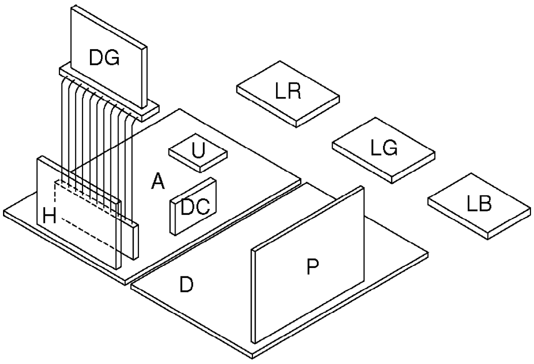
Main chasisis

4.2. Service Position for DG-Board

1. **Remove the each circuit board from A or D-Board.**
2. **Connect extension cables between individual circuit board and A or D-Board.**

Note:

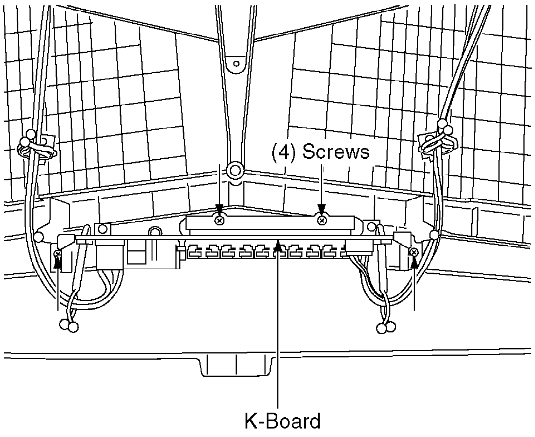
Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)


DG
LR
U
A
LG
DC
H
LB
P
D

4.3. Service Position for K-Board

1. Remove the Speaker Grille.

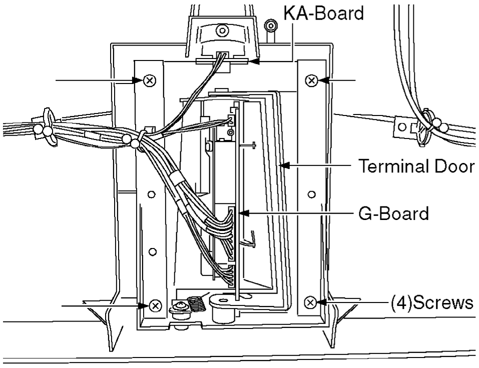
2. Remove the K-Board by (4) screws.


(4) Screws
K-Board

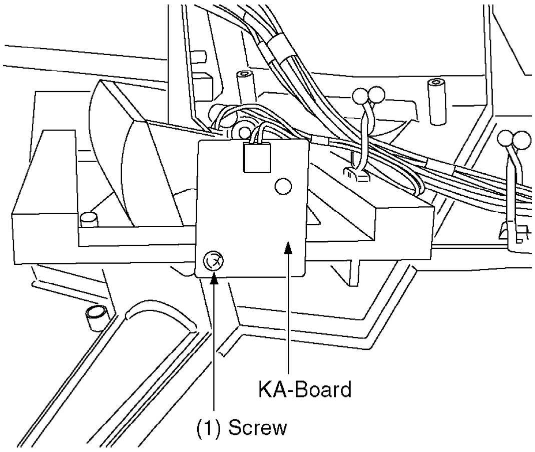
4.4. Service Position for KA-Board

1. Remove the Speaker Grille.

2. Remove the Terminal Door by (4) screws.


KA-Board
Terminal Door
G-Board
(4)Screws

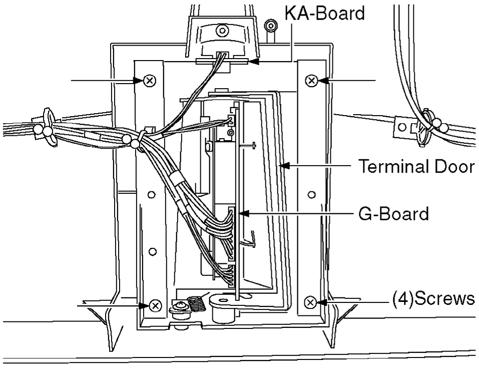
3. Remove the KA-Board by (1) screws.


KA-Board
(1) Screw

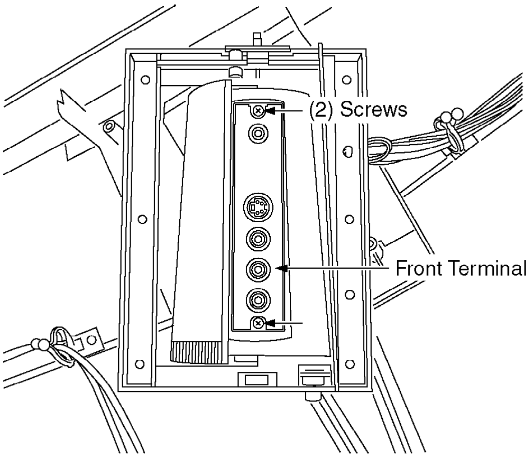
4.5. Service Position for G-Board

1. Remove the Speaker Grille.

2. Remove the Terminal Door by (4) screws.


KA-Board
Terminal Door
G-Board
(4)Screws

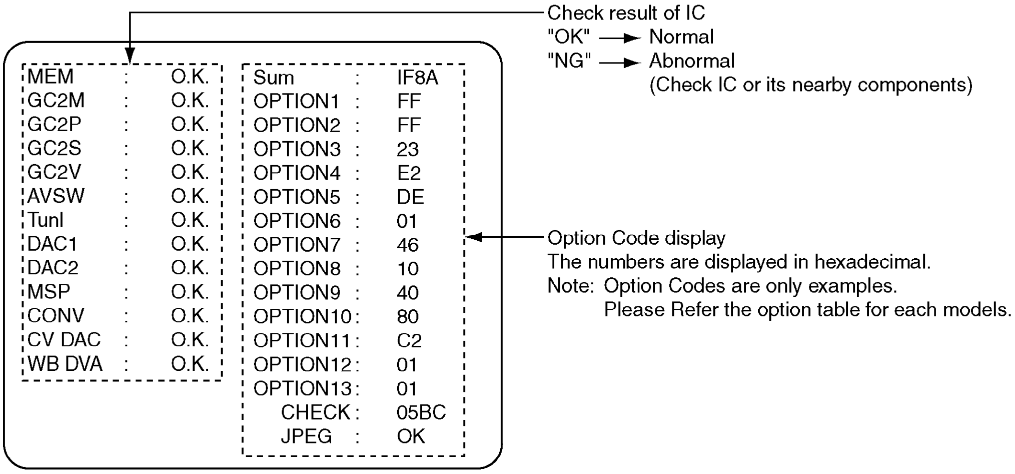
3. Remove the G-Board by (2) screws.


(2) Screws
Front Terminal

5. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self -Check mode press the down (−/∨) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and thescreen will show :



```
MEM     :   O.K.    Sum       :   IF8A
GC2M    :   O.K.    OPTION1   :   FF
GC2P    :   O.K.    OPTION2   :   FF
GC2S    :   O.K.    OPTION3   :   23
GC2V    :   O.K.    OPTION4   :   E2
AVSW    :   O.K.    OPTION5   :   DE
Tunl    :   O.K.    OPTION6   :   01
DAC1    :   O.K.    OPTION7   :   46
DAC2    :   O.K.    OPTION8   :   10
MSP     :   O.K.    OPTION9   :   40
CONV    :   O.K.    OPTION10  :   80
CV DAC  :   O.K.    OPTION11  :   C2
WB DVA  :   O.K.    OPTION12  :   01
                    OPTION13  :   01
                       CHECK  :   05BC
                       JPEG   :   OK
```

Check result of IC
"OK" → Normal
"NG" → Abnormal
(Check IC or its nearby components)

Option Code display
The numbers are displayed in hexadecimal.
Note: Option Codes are only examples.
Please Refer the option table for each models.

If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEMORY	IC1104	Memory	U-Board
GC2M	IC1301	Grobal Core MAIN	DG-Board
GC2P	IC1304	Grobal Core SUB1	DG-Board
GC2S	IC1302	Grobal Core SUB2	DG-Board
GC2V	IC1350	Grobal Core	DG-Board
AVSW	IC3003	AV Switch	H-Board
Tun1	TNR001	Tuner	A-Board
DAC1	IC1004	DAC control1	A-Board
DAC2	IC7110	DAC control2	DC-Board
MSP	IC2002	Stereo Decoder	A-Board
CONV	IC7107	Convergence	DC-Board
CV DAC	IC7301	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC control	A-Board

6. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

6.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.

2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.

6.2. How to enter SERVICE 2

1. Set the channel to CH99.

2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1

Function	Average Data
H-Pos	438
V-Pos	132
H-Amp	28
V-Amp	119
Parabola	68
Trapezoid	131
H-Parallel	8
V-Linear	134
Top-Corner	180
Bottom-Corner	180
V-S-Correct	55
C-Correct	7
IVBL C	160
G-LIMIT	255
B-LIMIT	255
WB-B-G-ST1	255
R High(Drive)	0128
G High(Drive)	0128
B High(Drive)	0128
R Low(Cut off)	0690
G Low(Cut off)	0640
B Low(Cut off)	0640
Sub-Bright	168
Sub-Contrast	154
Sub-Colour	26
Sub-NTSC Tint	-4
SECAM B-Y	192
SECAM R-Y	70
Sub-NTSC Tint2	129
Sub SECAM B-Y	192
Sub SECAM R-Y	70
Video Gain 2	20
SDRAM-F	-1
DAF-H-PARA	312
DAF V-SAW	9
DAF V-PARA	28
Coarse Convergence	Access
Fine Convergence	Access

- Press the RED/GREEN button to step up/down thrpugh the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been mode to store the required values.

CH99
+
HOLD button

CH99
+
INDEX button

SERVICE 2

Function		Function	
Y/C Delay	04	OPTION 8	10
OPTION 1	FF	OPTION 9	40
OPTION 2	FF	OPTION 10	80
OPTION 3	23	OPTION 11	C2
OPTION 4	E2	OPTION 12	01
OPTION 5	DE	OPTION 13	01
OPTION 6	01	Hours	00005
OPTION 7	46		

6.3. Option Descrition

Options		HQ	HM	X		**ASIA**
option1		6F	6F	6F		
0E0	b0	1	1	1	Colour system	Auto (1)
	b1	1	1	1		SECAM (1)
	b2	1	1	1		NTSC (1)
	b3	1	1	1		M.NTSC (1)
	b4	0	0	0	JPEG (1)	enable (1)
	b5	1	1	1	BBE (1)	enable (1)
	b6	1	1	1	BLUE LED (1)	enable (1)
	b7	0	0	0	YUV-SW (1)	enable (1)
option2		FF	FF	FF		
0E1	b0	1	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA (1)
	b1	1	1	1		NZ/INDNES (1)
	b2	1	1	1		AUSTRALIA (1)
	b3	1	1	1		E.EUROPE (1)
	b4	1	1	1		SPECIAL (1)
	b5	1	1	1		AMERICA (1)
	b6	1	1	1		CATV (1)
	b7	1	1	1		JAPAN (1)
option3		21	21	21		
0E2	b0	1	1	1	sub picture	without sub-picture (0), with sub-picture (1)
	b1	0	0	0	2tuner	2tuner (1), 1tuner (0)
	b2	0	0	0	VGA	enable (1)
	b3	0	0	0	AV5	enable (1)
	b4	0	0	0	Wide (16:9)	16:9 (1), 4:3 (0) (change multi window / aspect operation)
	b5	1	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5 (0), 5.5 / 6.0 / 6.5 (1)
	b7	0	0	0		5.5 / 6.5 (2), 6.0 / 6.5 (3)
option4		E2	E2	E2		
0E3	b0	0	0	0	A2 enable	4.5 (1)
	b1	1	1	1		5.5 (1)
	b2	0	0	0		6.0 (1)
	b3	0	0	0		6.5 (1)
	b4	0	0	0	NICAM enable	4.5 (1)
	b5	1	1	1		5.5 (1)
	b6	1	1	1		6.0 (1)
	b7	1	1	1		6.5 (1)
option5		DE	DE	DE		
0E4	b0	0	0	0	A2 select 6.5MHz	5.742MHz (0) 6.742MHz (1)
	b1	1	1	1	NICAM priority	ASIA / M.E. (1)
	b2	1	1	1		HK / UK (1)
	b3	1	1	1		CHINA (1)
	b4	1	1	1		NZ / INDN (1)
	b5	0	0	0		AUSTRA (1)
	b6	1	1	1		E.EURO (1)
	b7	1	1	1		SPECIAL (1)

Options		HQ	HM	X		**ASIA**
option6		00	00	02		
0E5	b0	0	0	0	Ext. HV input	Without HV input (0) / with HV input (1)
	b1	0	0	1	SASO enable	SASO enable (1)
	b2	0	0	0	Noise mute	Noise mute enable (0)
	b3	0	0	0	Monitor out AV1 mute	Monitor out AV1 mute (1)
	b4	0	0	0	Tuner no refresh	Refresh tuner (0), no refresh (1)
	b5	0	0	0	Tuner	MACO tune r(0), ALPS tuner (1)
	b6	0	0	0	free	
	b7	0	0	0		No motion cotrol in film mode (1)
option7		C6	C6	C6		
0E6	b0	0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	1	CH Blanking	Blanking enable (1)
	b2	1	1	1	AV Blanking	Blanking enable (1)
	b3	0	0	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	0	Volume correction	TV Volume correction enable (1)
	b5	0	0	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	1	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	1	1	Owner ID	enable (1)
option8		D0	50	50		
0E7	b0	0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	0	Geomagnetic Sensor	Geomagnetic sensor enable (1)
	b2	0	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	0	Rf Attenuater menu	Enable (1)
	b4	1	1	1	Fine tuning	Enable (1)
	b5	0	0	0	Search speed	Slow (1) Fast (0)
	b6	1	1	1	TEXT FLOF	Reserved
	b7	1	0	0	TEXT TOP	TOP enable (1)
option9		40	40	40		
0E8	b0	0	0	0	Dolby	Dolby enable (1)
	b1	0	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	0	Dolby Virtual	Dolby Virtual enable (1)
	b3	0	0	0	Amp	with Amp (0) / without Amp (1)
	b4	0	0	0	Sound Ext. DA	without Sound Ext. DA (0) / with Sound Ext. DA (1)
	b5	0	0	0	Shopping Sound menu	MUSIC (0) / CINEMA (1)
	b6	1	1	1	Volume curve	Volume curve1 (0), curve2 (1)
	b7	0	0	0	L1PSYNC	L1PSYNC enable (1)
option10		80	80	80		
0E9	b0	0	0	0	OSD language	English Chinese Arabia (0), English Russian (1)
	b1	0	0	0	ACI all country	not use
	b2	0	0	0	ACI auto MP	not use
	b3	0	0	0	ACI offset	not use
	b4	0	0	0	Blue Back	
	b5	0	0	0	BC Safety	Reserved
	b6	0	0	0	Protect XPR	Reserved
	b7	1	1	1	Protect 5V detect	Protection input enable (1)

Options Model		HQ	HM	X		**ASIA**
option11		42	42	42		
0EA	b0	0	0	0	Shop mode	enable (1)
	b1	1	1	1	Picture Shift	enable (1)
	b2	0	0	0	Sub Headphone	enable (1)
	b3	0	0	0	User aspect Just	enable (1)
	b4	0	0	0	User aspect 14:9	enable (1)
	b5	0	0	0	NICAM C4 bit	enable (1)
	b6	1	1	1	ID-1	enable (1)
	b7	0	0	0	1080I	enable (1)
option12		03	01	01	Area Option	
0EB	b0	1	1	1	Asia	Asia (1), europe (0)
	b1	1	0	0	Australia	Australia (1)
	b2	0	0	0	Ireland/India	India (1)
	b3	0	0	0	UK	not use
	b4	0	0	0	MELCOA	MELCOA (1)
	b5	0	0	0	28 inch	28 inch (1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	0	LED	enable (1)
	b7	0	0	0	free	
option13		01	01	01	Temporary	
0EC	b0	1	1	1	GC2V ES2	ES2 (1), BS1 (0)
	b1	0	0	0	UK Tuner IF 38.9	38.9 MHz (0), 39.5 MHz (1)
	b2	0	0	0		
	b3	0	0	0		
	b4	0	0	0		
	b5	0	0	0		
	b6	0	0	0		
	b7	0	0	0		

7. CRT Set Up

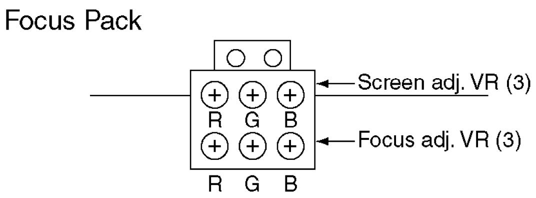
Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

7.1. Dynamic Focus Adjustment

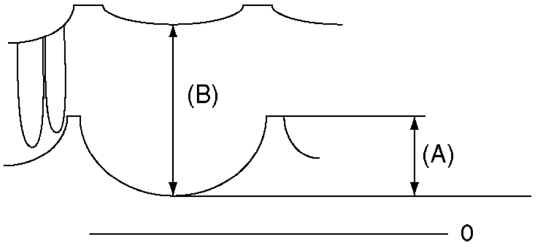
1. **Focus adjustments should be performed after 1 hour of aging.**
2. **Use oscilloscope with 100 : 1 probe.**
3. **Apply PAL monoscope pattern.**
4. **Set scan mode to 100Hz.**
5. **Set the picture menu to Dynamic.**
6. **Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)**

Fig. 2



7. **Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.**
8. **Adjust V-PARA (Service mode1) so that waveform (A) is 380V ± 20V. (Fig. 3)**
9. **Adjust H-PARA (Service mode1) so that waveform (B) is 560V ± 40V. (Fig. 3)**

Fig. 3



10. **Set scan mode to PAL 100V Comp.**
11. **Set the picture menu to Dynamic.**
12. **Adjust V-PARA (Service model) so that waveform (A) is 180V ± 20V. (Fig. 3)**
13. **Adjust H-PARA (Service model) so that waveform (B) is 560V ± 20V. (Fig. 3)**
14. **Set scan mode to Progressive.**
15. **Repeat step 6-9.**

16. Apply NTSC monoscope pattern.
17. Set scan mode to Progressive.
18. Repeat step 6-9.
19. Set scan mode to 100Hz.
20. Repeat step 6-9.
21. Proceed with Focus Adjustments.

7.2. Electrical Focus Adjustment

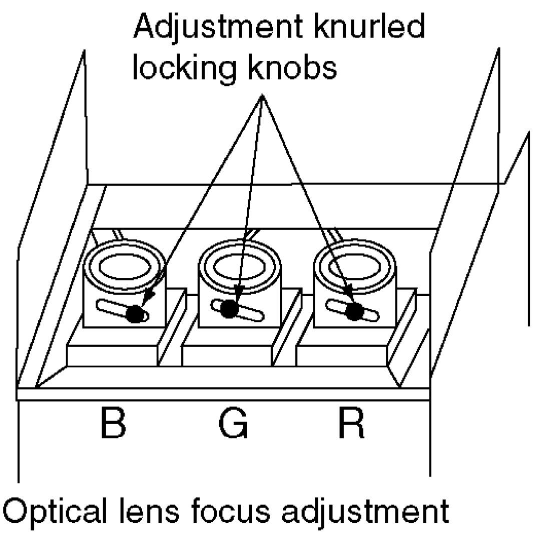
1. Receive a monoscope pattern.
2. Cover the Red and Blue CRT, projecting Green only.
   The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
3. Repeat for Red focus VR while projecting Red only.
4. Repeat for Blue. (Best focus at bottom left corner of screen)

7.3. Optical Lens Focus Adjustment

Note:
This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurls locking knob. (Fig. 4)

Fig. 4 (Rear view)



2. Turn the Receiver ON apply and view a monoscope pattern.

3. Adjust each lens focus for best focus while viewing each CRT.

4. Cover the Red and Blue CRT, projecting green only.Rotate the Green lens for best focus around screen center area.

5. Do the same for the Red focus lens while projecting Red only.

6. Repeat for Blue.

7.4. Centering Magnet Adjustment

1. Receive a monoscope pattern.

2. Set that Fine convergence data (Service mode1) is clear (no correction).

3. Set that V-Pos data (Service mode1) is [130].

4. Set that H-Pos data (Service mode1) is [438].

5. Set that H-Parallel data (Service mode1) is [8].

Procedure:

1. Cover the Red, Blue CRT lens, projecting Green only.

2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/ vertical center line.

3. Cover the Green, Red CRT lens, projecting Blue only.

4. Repeat step 2. for blue.

5. Cover the Green, Blue CRT lens, projecting Red only.

6. Repeat step 2. for red.

7. Cover the Red, Blue CRT lens, projecting Green only.

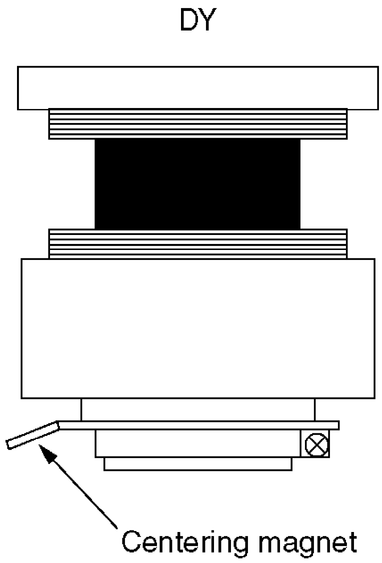
8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.

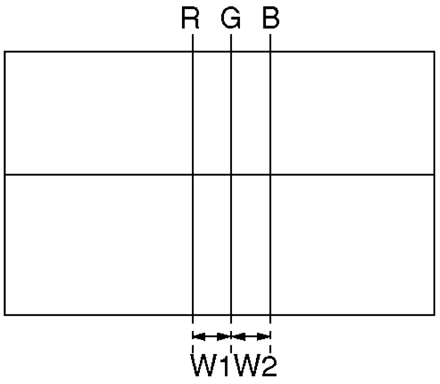
9. Cover the Green, Red CRT lens, projecting Blue only.

10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.

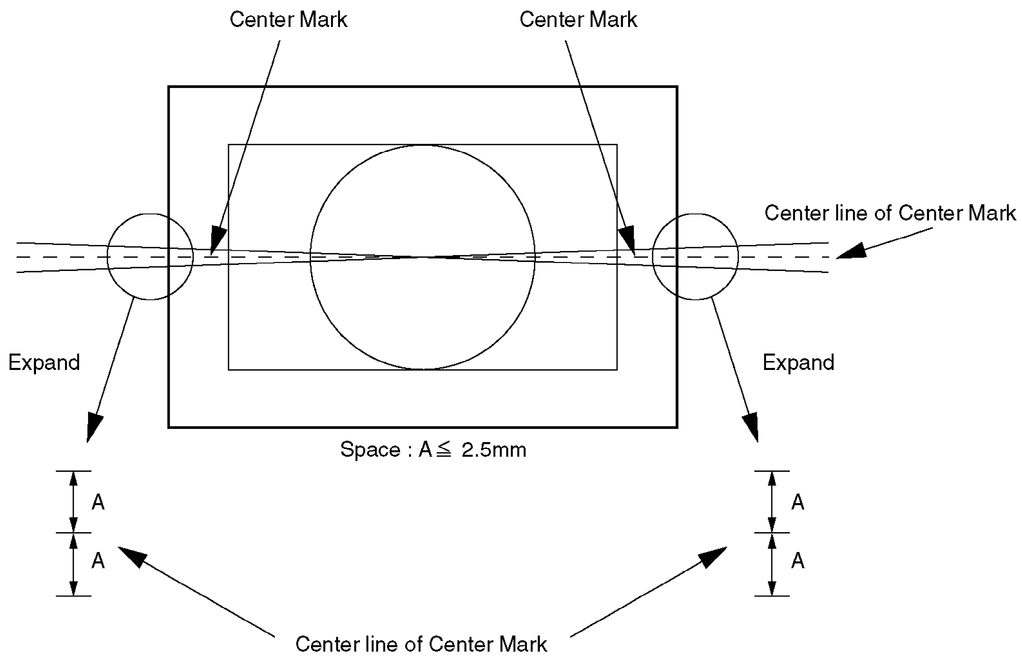
11. Cover the Green, Blue CRT lens, projecting Red only.

12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.


DY
Centering magnet



51inch	W1=17.5mm ± 2.5mm W2=40.0mm ± 2.5mm
43inch	W1=17.5mm ± 2.5mm W2=40.0mm ± 2.5mm

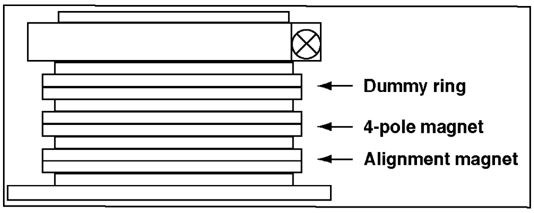

Center Mark
Center Mark
Center line of Center Mark
Expand
Expand
Space : A≦ 2.5mm
A
A
A
A
Center line of Center Mark

7.5. Alignment magnet Adjustment

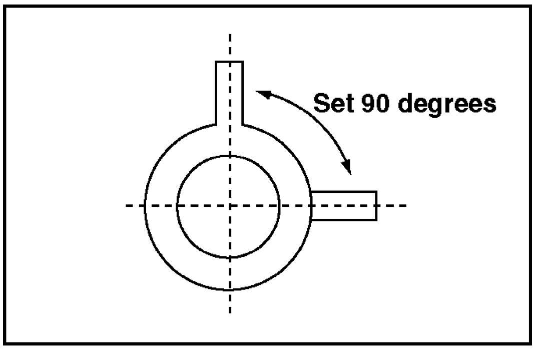
Preparation:

1. **Receive an cross hatch pattern with dots (pincushion).**
2. **Loosen the centering magnets screws.**
3. **Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).**

VM Coil with focus correction magnet

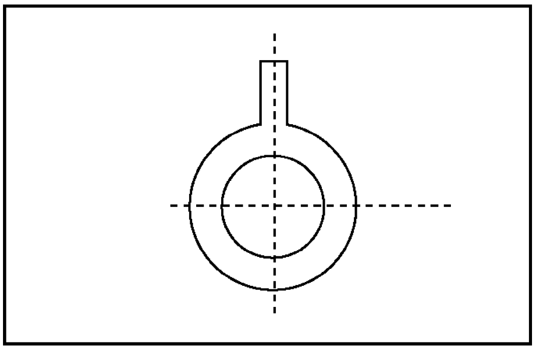

Dummy ring
4-pole magnet
Alignment magnet

4-pole magnet


Set 90 degrees

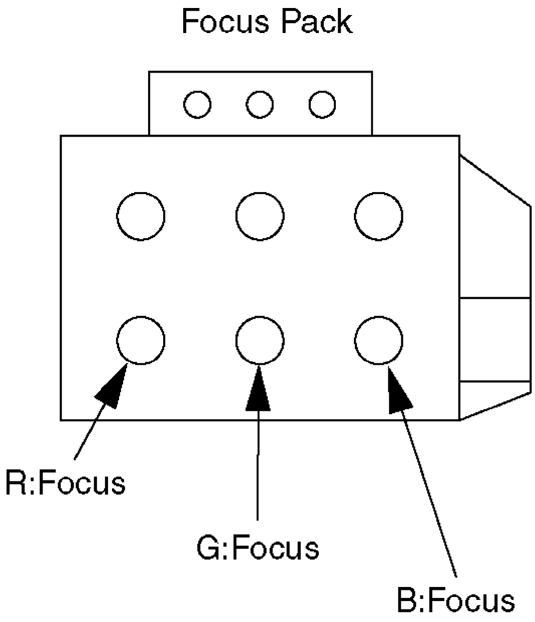
4. **Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.**

Alignment magnet (or dummy ring)



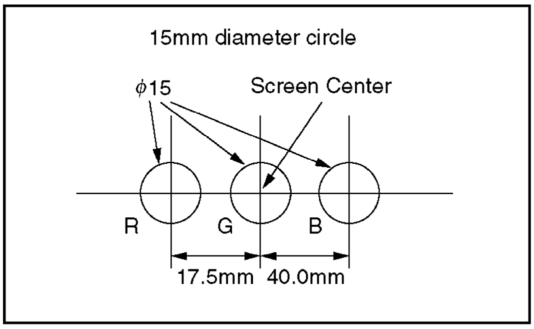
Procedure:

1. **Receive an cross hatch pattern with dots.**
2. **Cover the Red, Blue CRT lens, projecting Green only.**
3. **Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.**
4. **Turn the green electrical focus adjustment VR fully clockwise.**
5. **Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.**
6. **Adjust for best green electrical focus with green electrical focus adjustment VR.**
7. **Cover the Green, Red CRT lens, projecting Blue only.**
8. **Repeat step 4. ~ step 6. for blue electrical focus.**
9. **Cover the Green, Blue CRT lens, projecting Red only.**
10. **Repeat step 4. ~ step 6. for red electrical focus.**


Focus Pack
R:Focus
G:Focus
B:Focus

11. **Receive an monoscope pattern.**
12. **Cover the Red, Blue CRT lens, projecting Green only.**
13. **If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)**

Centering magnet adjustment


15mm diameter circle
φ15
Screen Center
R
G
B
17.5mm
40.0mm

14. **Cover the Green, Blue CRT lens, projecting Red only.**
15. **Repeat step 13. for the red.**
16. **Cover the Green, Red CRT lens, projecting Blue only.**
17. **Repeat step 13. for the blue.**
18. **Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.**

8. Deflection Adjustment

Caution

1. **The following adjustment have to be carried out one with PAL signal (100i/50p) and with NTSC signal (60p/120i) .**
2. **Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.**
3. **Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.**

8.1. PAL 100Hz mode (100i)

8.1.1. Preparation

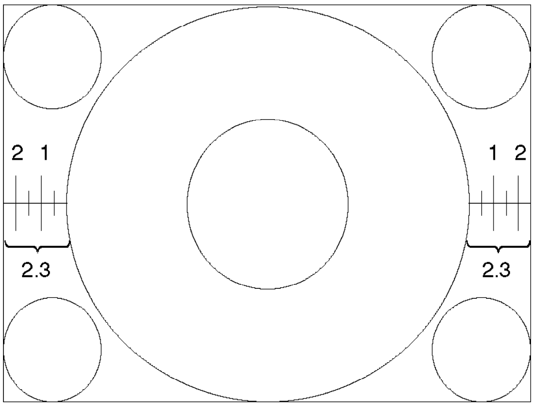
1. **Receive PAL monoscope pattern.**
2. **Set scan mode to 100Hz.**
3. **Set the Picture Menu to NORMAL.**
4. **Set the TV to Service Mode 1.**
5. **Set the Data of Service Mode 1 as follow**

H-Pos	438	Top-Corner	170
V-Pos	130	Bottom-Corner	173
H-Parallel	8	V-S-Correct	92
IVBL C	108	C-Correct	6

6. **Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.**
7. **Push [HELP] button so that projecting Green only.**

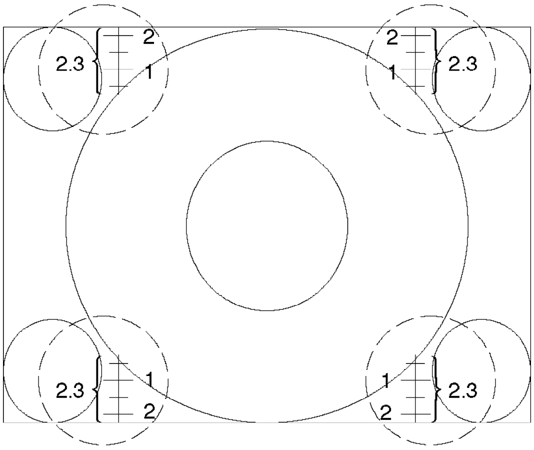
8.1.2. H-Pos and H-Amp Adjustment

1. **Adjust Monoscope pattern for center of the screen by H-Pos control.**
2. **Adjust Horizontal amplitude for 2.3 ±0.1 division of a scale by H-Amp control.**

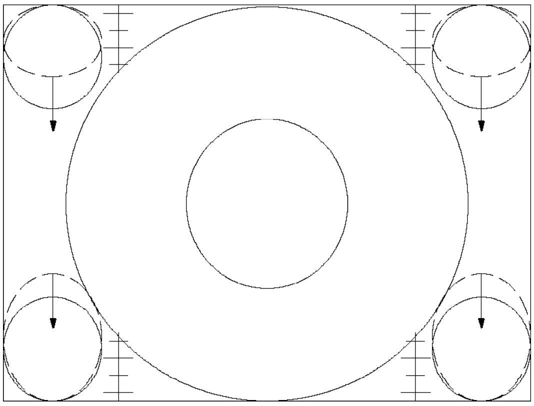


8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.1.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.2. PAL 100Hz V Comp mode (100i)

8.2.1. Preparation

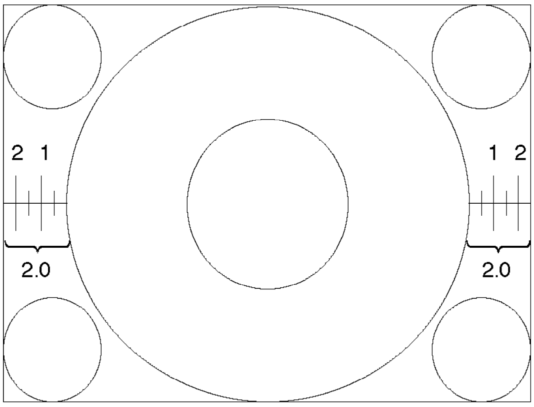
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	168
		Bottom-Corner	173
H-Parallel	8	V-S-Correct	45
IVBL C	45	C-Correct	7

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

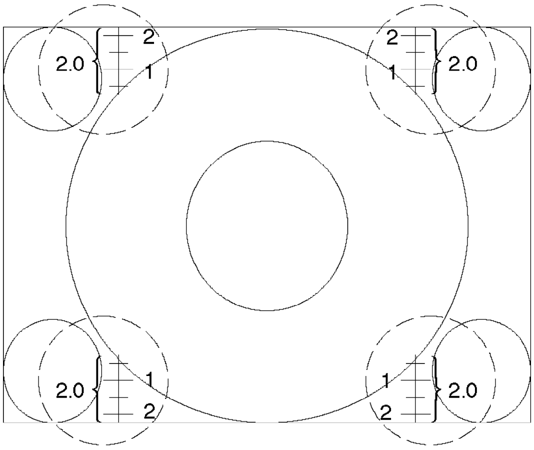
8.2.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.0 ±0.1 division of a scale by H-Amp control.

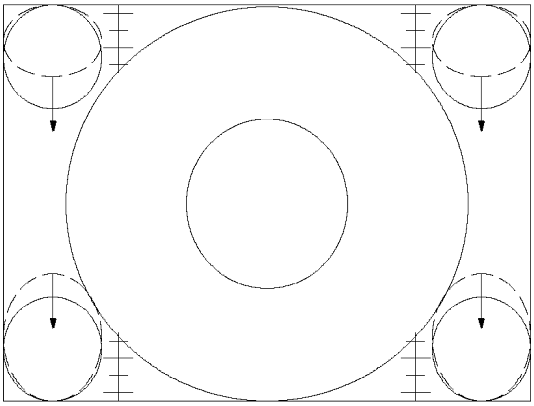


8.2.3. V-Amp, V-Linear and V-Pos Adjustment

1. **Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.**



2. **Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.**



3. **Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.**

8.2.4. Parabola and Trapezoid Adjustment

1. **Receive PAL cross hatch pattern.**
2. **Adjust the vertical line to straight line by Parabola control.**
3. **Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.**

8.3. PAL Progressive mode (50p)

8.3.1. Preparation

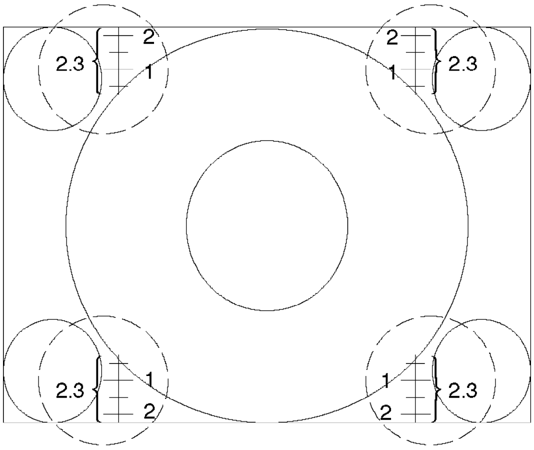
1. **Receive PAL monoscope pattern.**
2. **Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)**
3. **Set scan mode to progressive.**
4. **Set the Picture Menu to NORMAL.**
5. **Set the TV to Service Mode 1.**
6. **Set the Data of Service Mode 1 as follow**

H-Parallel	**8**	**Bottom-Corner**	**173**
IVBL C	**90**	**V-S-Correct**	**90**
Top-Corner	**173**	**C-Correct**	**6**

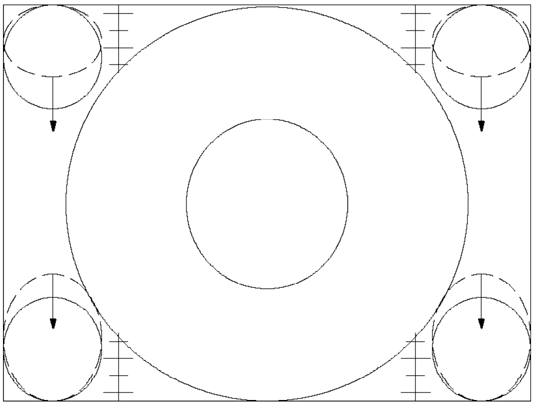
7. **Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.**
8. **Push [HELP] button so that projecting Green only.**

8.3.2. V-Amp, V-Linear and V-Pos Adjustment

1. **Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.**



2. **Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.**



3. **Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.**

8.4. NTSC Progressive mode (60p)

8.4.1. Preparation

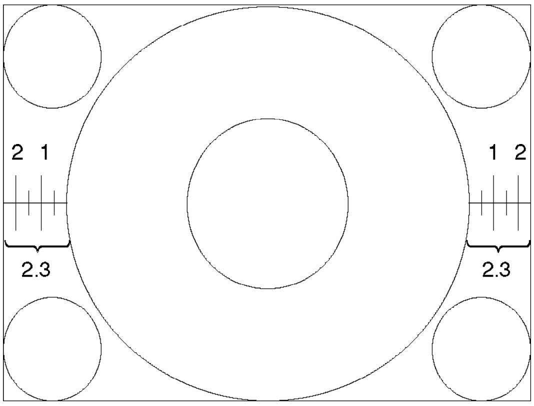
1. **Receive NTSC monoscope pattern.**
2. **Set scan mode to Progressive.**
3. **Set the Picture Menu to NORMAL.**
4. **Set the TV to Service Mode 1.**
5. **Set the Data of Service Mode 1 as follow**

H-Parallel	**8**	**Bottom-Corner**	**167**
IVBL C	**95**	**V-S-Correct**	**92**
Top-Corner	**176**	**C-Correct**	**6**

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

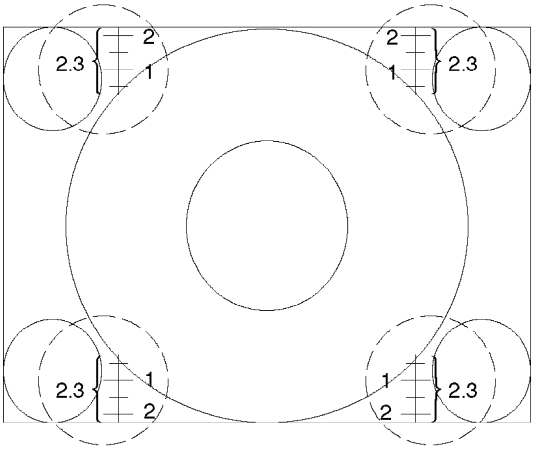
8.4.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.3 ± 0.1 division of a scale by H-Amp control.

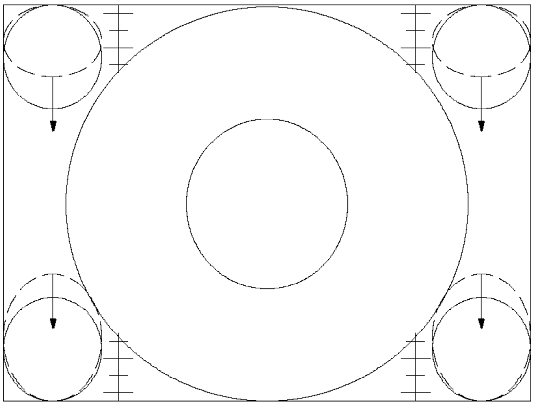


8.4.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.4.4. Parabola and Trapezoid Adjustment

1. Receive NTSC cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.5. 525p Deflection Adjustment / Confirmation

8.5.1. V / H-Deflection confirmation

1. Receive 525p signal.
2. Confirm V / H-Deflection is normal.

8.5.2. H-Pos confirmation / Adjustment

1. Receive 525p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

8.6. 625p Deflection Adjustment / Confirmation

8.6.1. V / H-Deflection confirmation

1. Receive 625p signal.
2. Confirm V / H-Deflection is normal

8.6.2. H-Pos confirmation / Adjustment

1. Receive 625p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

9. Adjustment Procedure

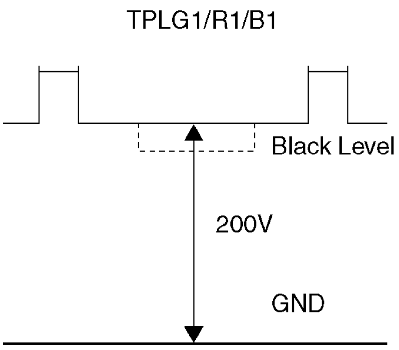
9.1. Cut off Adjustment

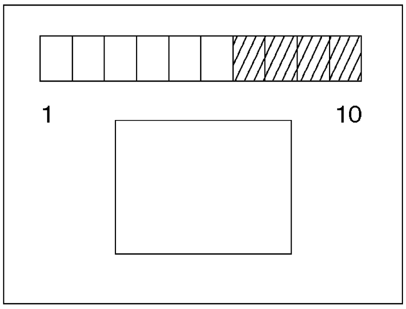
Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255
C Temp : Standard High-RGB : 128
AI : ON Low-RGB : 640
P-NR : AUTO
Scan Mode : 100Hz (PAL) G-Limit : 255
Screen VR : Full Counterclockwise B-Limit : 255

Adjustment

1. **Receive a Black Level pattern.**
2. **Connect an oscilloscope to TPLG1 on LG-Board.**
3. **Adjust Sub Bright so that the waveform A is 200 ± 2V.**
4. **Connect an oscilloscope to TPLR1 on LR-Board.**
5. **Adjust Low-R so that the waveform A is 200 ± 2V.**
6. **Connect an oscilloscope to TPLB1 on LB-Board.**
7. **Adjust Low-B so that the waveform A is 200 ± 2V.**
8. **It pushes and it makes a [HELP] key the project only of GREEN.**
9. **The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.**
10. **It pushes and it makes a [HELP] key the project only of RED.**
11. **The 6th paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.**
12. **It pushes and it makes a [HELP] key the project only of BLUE.**
13. **The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.**





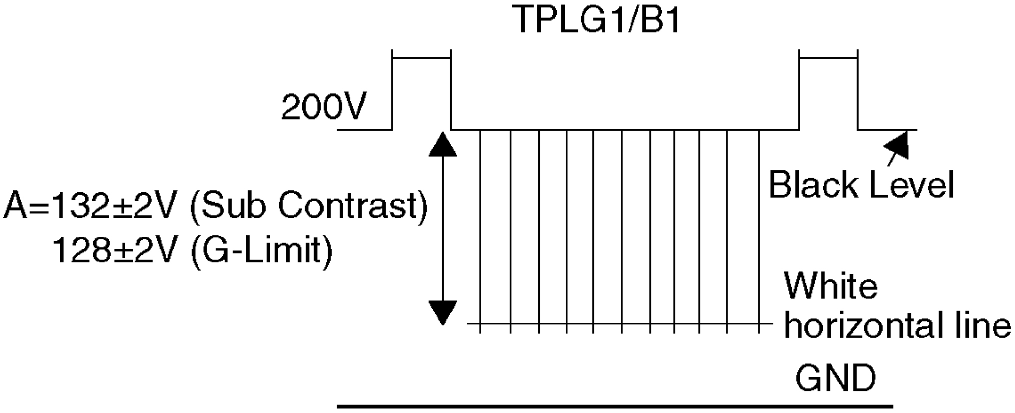
9.2. Sub Contrast / G-Limit Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255
C Temp : Standard High-RGB : 128
AI : ON Low-G : 640
P-NR : AUTO G-Limit : 255
Scan Mode : 100Hz (PAL)
Cut off Adjustment has been adjusted

Adjustment

1. **Receive a Cross Hatch pattern.**
2. **Connect an oscilloscope to TPLG1 on LG-Board.**
3. **Adjust Sub Contrast so that the waveform A is 132 ± 2V.**
4. **Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.**
5. **Adjust G-Limit so that the waveform A is 128 ± 2V.**



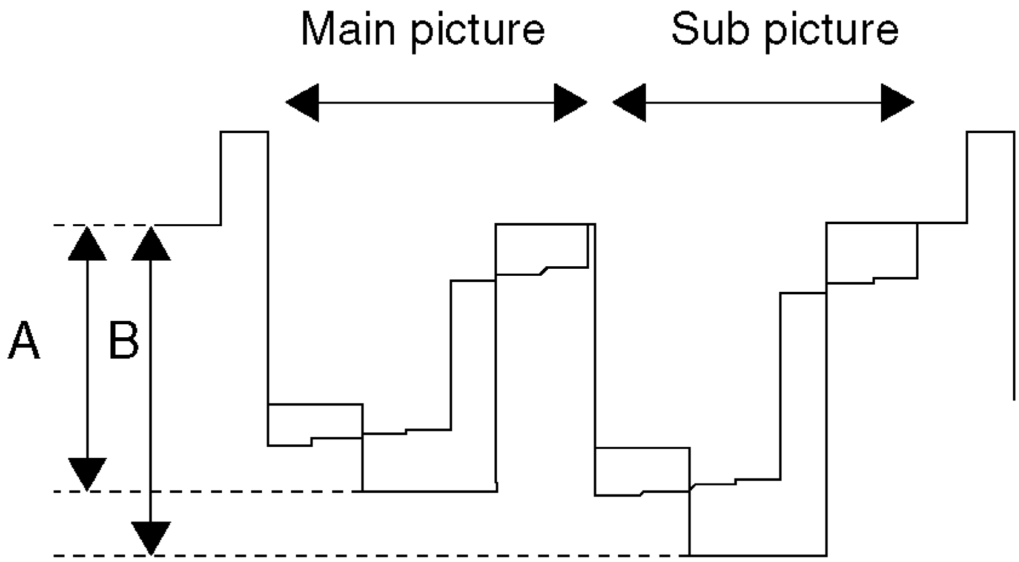
9.3. Sub Picture Contrast Adjustment

Preparation

Picture Menu : Dynamic
AI : ON

Adjustment

1. **Receive a Colour Bar pattern.**
2. **Connect an oscilloscope to TPLG1 on LG-Board.**
3. **Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.**
4. **Write same date on Video gain TV as Video gain AV.**


Main picture
Sub picture
A
B

9.4. NTSC Tint Adjustment

Preparation

Picture Menu : Dynamic   P-NR : AUTO

C Temp : Standard   Scan Mode : 100Hz (PAL)

AI : ON

Adjustment

1. **Receive a Rainbow (NTSC 3.58Hz) pattern.**
2. **Connect an oscilloscope to TPLR1 on LR-Board.**
3. **Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.**

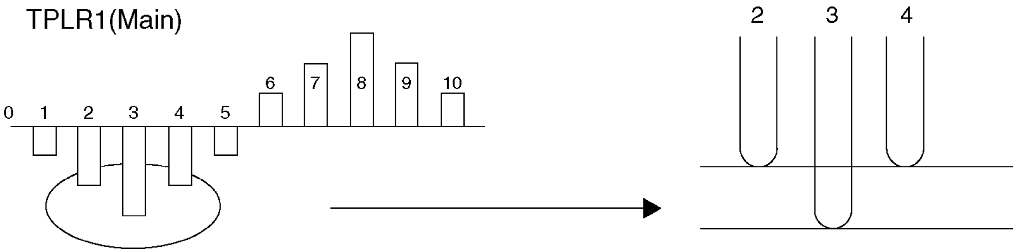

TPLR1(Main)
0
1
2
3
4
5
6
7
8
9
10
2
3
4

Fig. A

4. **Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.**
5. **Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.**

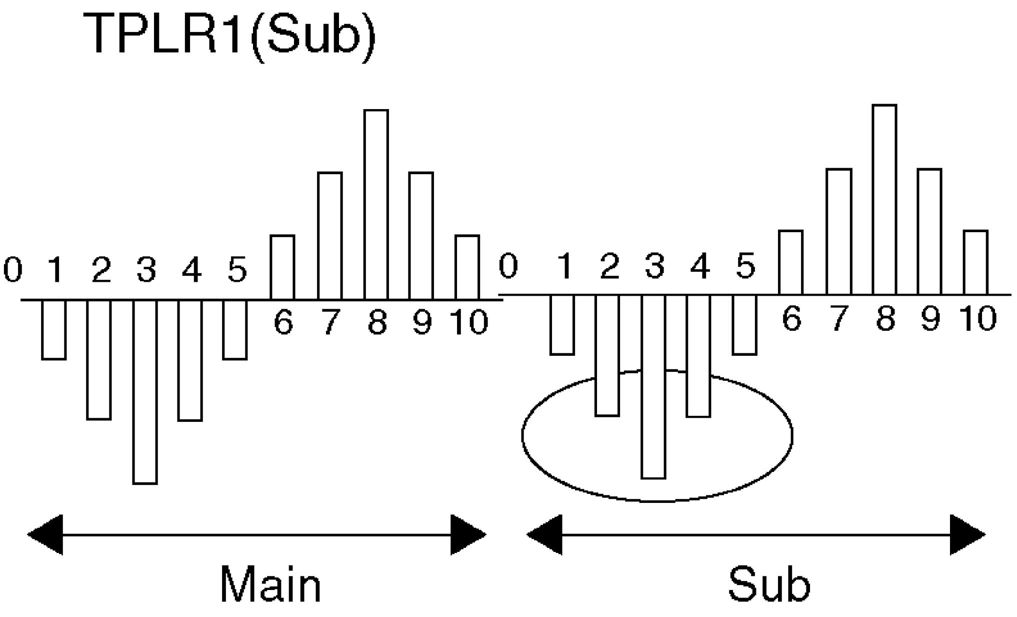

TPLR1(Sub)
0 1 2 3 4 5 6 7 8 9 10
0 1 2 3 4 5 6 7 8 9 10
Main
Sub

Fig. B

9.5. Sub Color Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO

C Temp : Standard Scan Mode : 100Hz (PAL)

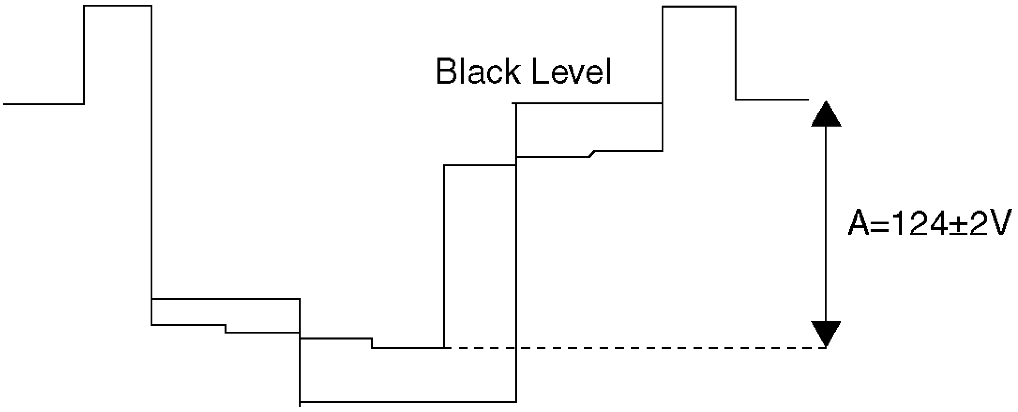
AI : ON ACL : OFF

Adjustment

1. Receive a PAL Colour Bar pattern.

2. Connect an oscilloscope to TPLG1 on LG-Board.

3. Adjust Sub Color so that the waveform A is 124 ± 2V.


Black Level
A=124±2V

9.6. Blue Focus / Gamma Adjustment

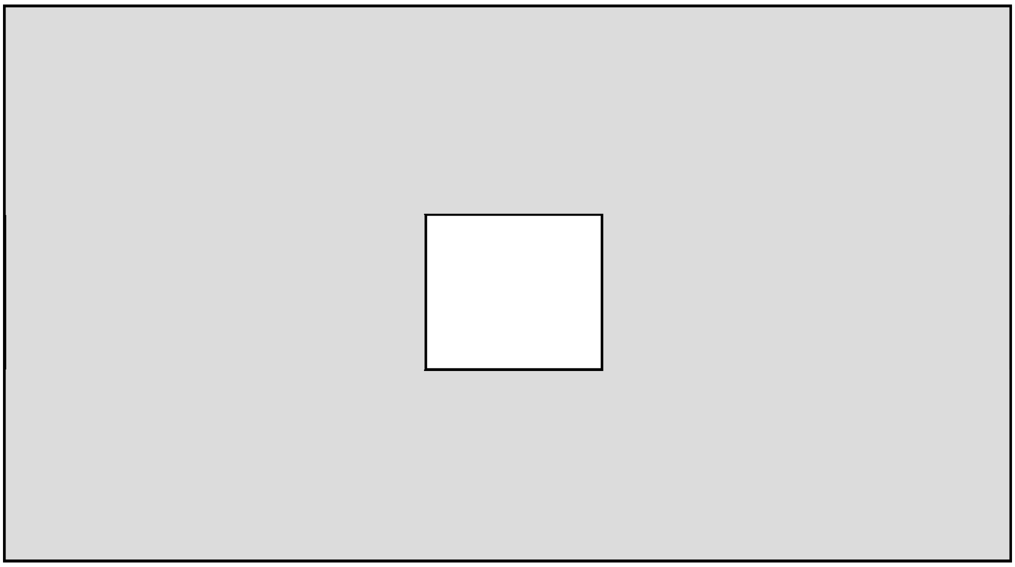
Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 100

C Temp : Standard B-Limit : 255

AI : ON
P-NR : AUTO
Scan Mode : 100Hz (PAL)
Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a Window pattern.**
3. **Set the Sub Contrast and High-B to Max.**
4. **It pushes and it makes a [HELP] key the project only of BLUE.**
5. **Adjust Blue Focus VR so that Y is 7.0 ± cd/m2**



9.7. White Balance Adjustment

Preparation
Picture Menu : Dynamic   Sub Bright :130
C Temp : Standard   High R : 100
AI : ON
P-NR : ON   High B : 128
Scan Mode : 100Hz (PAL)   WB-B-G-ST1 : 170
Low G : 640
Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a Window pattern.**
3. **Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.**
4. **Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.**

51 inch model

Mode	Bright	Controle DAC name		Target (x)	C. Temp	MPCD
	(cd/m^2)	RED	BLUE	(y)	(K)	
Hi	96	High R	WB–B–G–ST1	0.270 ± 0.005	13000 ± 500	–5 ± 5
				0.240 ± 0.005		
Mid	35	– – –	High B	0.270	11500 ± 500	–20 ± 5
				0.230 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	–25 ± 5
				0.240 ± 0.008		

43 inch model

Mode	Bright	Controle DAC name		Target (x)	C. Temp	MPCD
	(cd/m^2)	RED	BLUE	(y)	(K)	
Hi	120	High R	WB–B–G–ST1	0.266 ± 0.005	13000 ± 500	–5 ± 5
				0.246 ± 0.005		
Mid	40	– – –	High B	0.270	11500 ± 500	–20 ± 5
				0.240 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	–25 ± 5
				0.240 ± 0.008		

9.8. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic   P-NR : AUTO

C Temp : Dynamic   Scan Mode : 100Hz (PAL)

AI : ON

Cut off and White Balance Adjustment has been adjusted

Adjustment

1. **Set the White Balance Meter on Screen center.**
2. **Receive a PAL Window pattern.**
3. **Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.**

9.9. Blue Limit Adjustment

Preparation

Picture Menu : Dynamic

C Temp : Standard

AI : ON

P-NR : ON

Scan Mode : 100Hz (PAL)

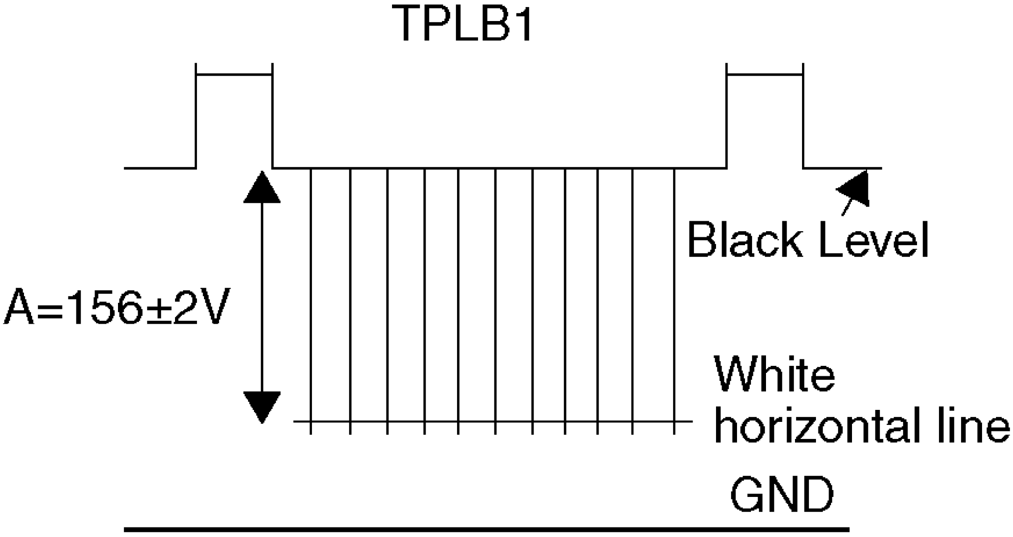
White Balance Adjustment has been adjusted

Adjustment

1. **Receive a Cross Hatch pattern.**

2. Connect an oscilloscope to TPLB1 on LB-Board.

3. Adjust B-LIMIT so that the waveform A is 156 ± 2V.



10. Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustmentfor NTSC mode.

When replacing the following Parts.

IC7301 (EEP-ROM in A-Board)L551 (Pincushion Coil)High Voltage Producing Parts Other Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper.Then adjust the convergence.

When replacing one of the CRT's.

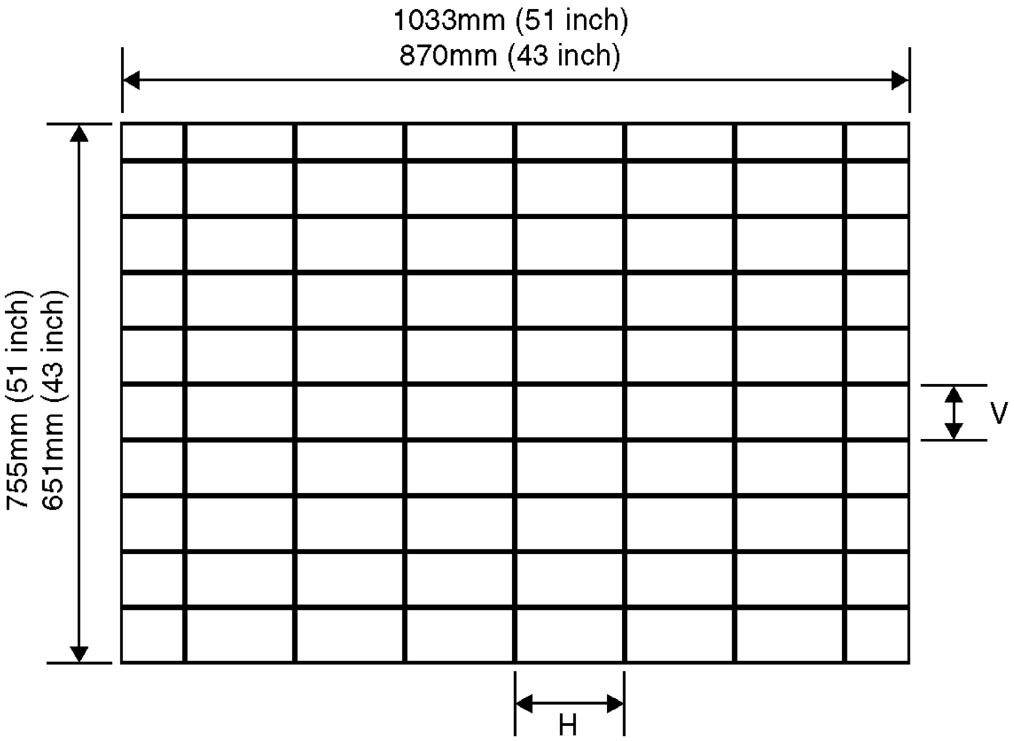
Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

Helpful Hint

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory.This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL).To perform these adjustments,push the SEARCH button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructedby the On Screen Display in Fine Convergence adjustment.

All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these. (Page 29)

10.1. Convergence Adjustment Sheet



51inch

	メッシュピッチ(mm)	
信号	H	V
PAL 100	176.5	100.0
PAL V.Comp	176.5	51.5
PAL Progressive	176.5	100.0
NTSC Progressive	170.5	102.5

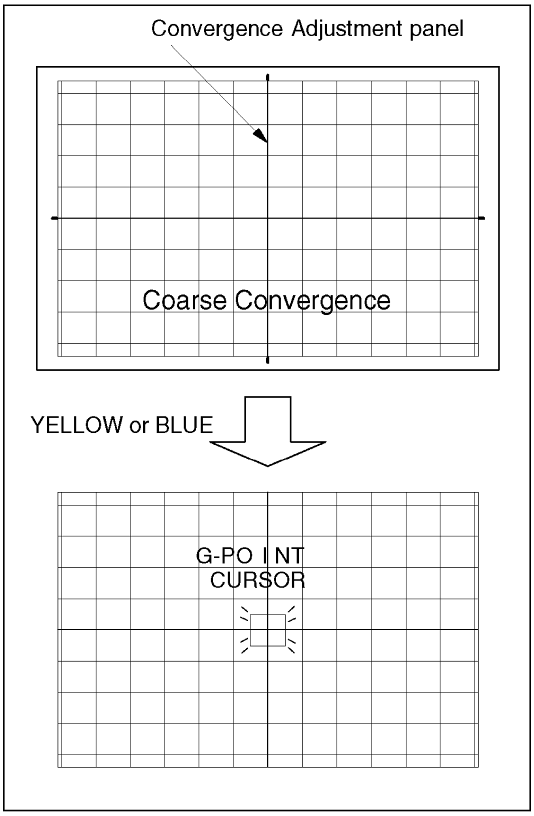
43inch

	メッシュピッチ(mm)	
信号	H	V
PAL 100	149.0	84.5
PAL V.Comp	149.0	43.5
PAL Progressive	149.0	84.5
NTSC Progressive	143.5	86.5

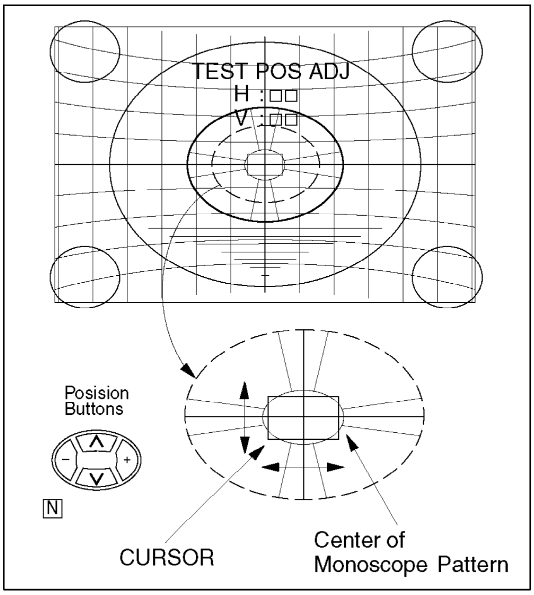
10.2. Convergence Adjustment Procedure

1. **Input a monoscope pattern of PAL.**
2. **Enter the Service Mode1.**
3. **Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.**
4. **Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.**
5. **Push the “YELLOW” or “BLUE” on the remote control, and enter**

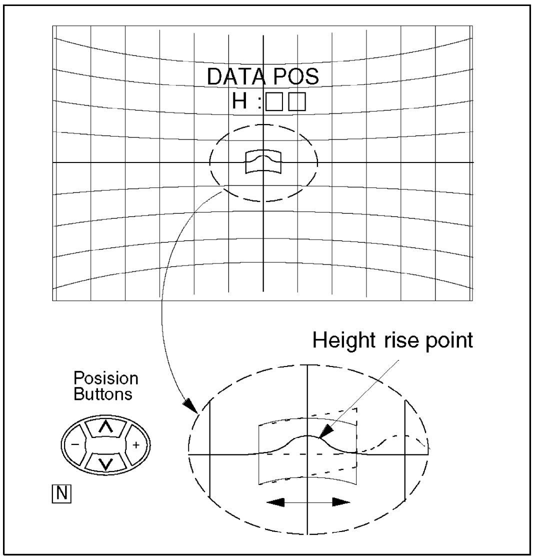
the Coarse Convergence Adjustment mode.


Convergence Adjustment panel
Coarse Convergence
YELLOW or BLUE
G-POINT
CURSOR

6. **Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.**
7. **Enter to "TEST POS." mode.**
8. **Push the "5" button to display the monoscope pattern on the screen.**
9. **Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.**


TEST POS ADJ
H :□□
V :□□
Posision Buttons
N
CURSOR
Center of Monoscope Pattern

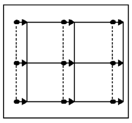
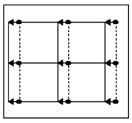
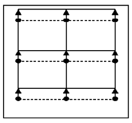
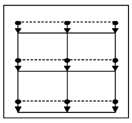
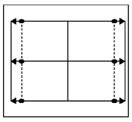
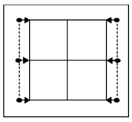
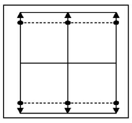
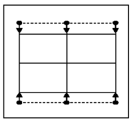
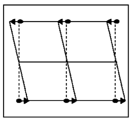
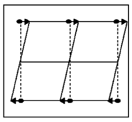
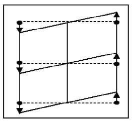
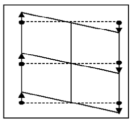
10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
11. Push the "5" button and close the background image (monoscope pattern).
12. Use the "+" and "-" of the position buttons so that the bump in the screen center line is at the center of the cursor.

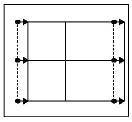
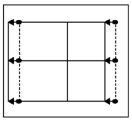
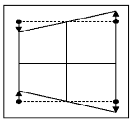
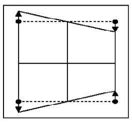
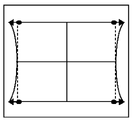
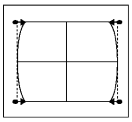
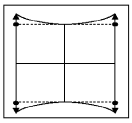
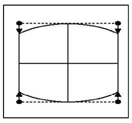
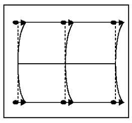
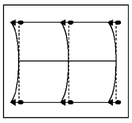

DATA POS
H :□□
Height rise point
Posision Buttons
N

13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
15. Push the "SET UP" button, and "N" button to store data.

16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

10.3. Coarse Convergence Adjustment mode

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
1	STATIC	H	R	123		
			G	10		
			B	–229		
		V	R	–8		
			G	–5		
			B	–8		
2	SIZE	H	R	–69		
			G	–38		
			B	–93		
		V	R	–5		
			G	–6		
			B	–15		
3	SKEW	H	R	–14		
			G	–5		
			B	–10		
		V	R	0		
			G	0		
			B	–2		

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
3	LINEARITY	H	R	–107		
			G	88		
			B	319		
4	KEYSTONE	V	R	102		
			G	32		
			B	–111		
5	PIN	H	R	61		
			G	48		
			B	53		
		V	R	227		
			G	268		
			B	258		
6	CORNER	H	R	+31		
			G	–19		
			B	–69		

10.3.1. Green Coarse Convergence Adjustment

10.3.1.1. Reparation

Push the "SOUND" button, and select the Green Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Green" colour.

10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.

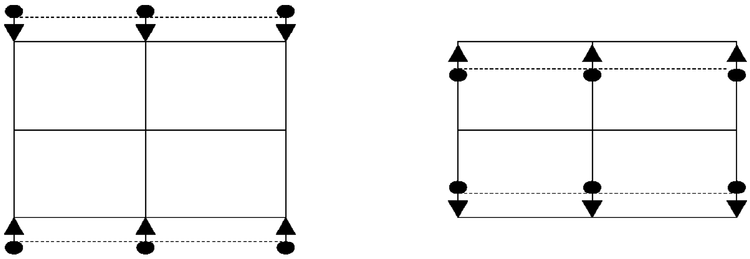


Fig. A : V–SIZE

10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.

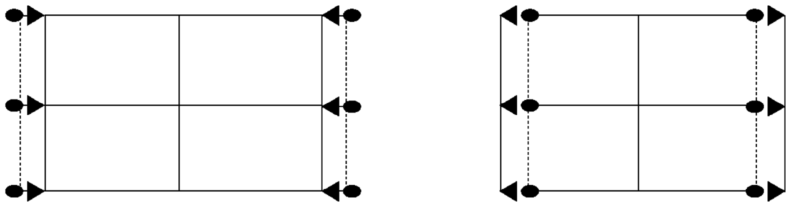


Fig. B : H–SIZE

10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR".Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.

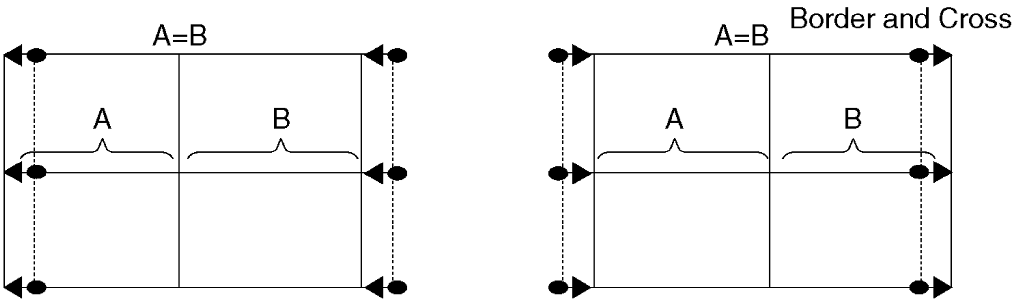


Fig.C : LINEAR

10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.

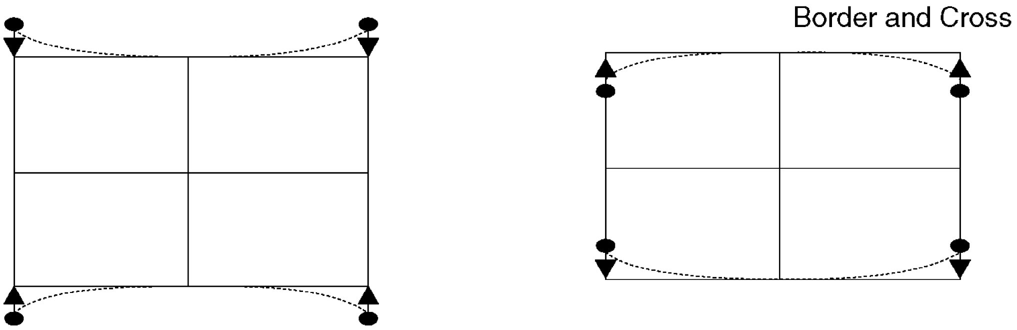


Fig.D : V-PIN

10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

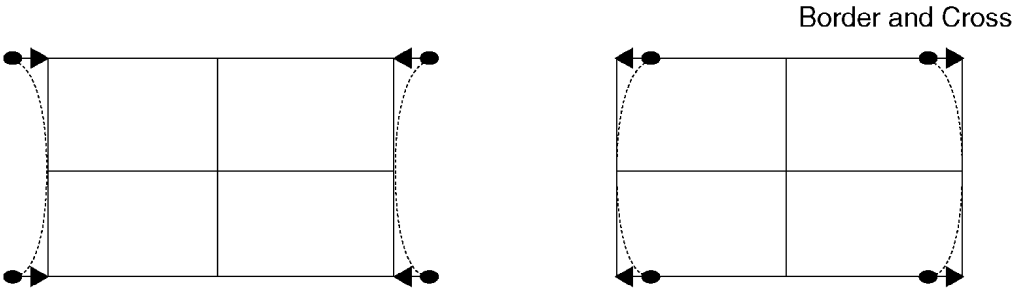


Fig.E : H-PIN

10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER".Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

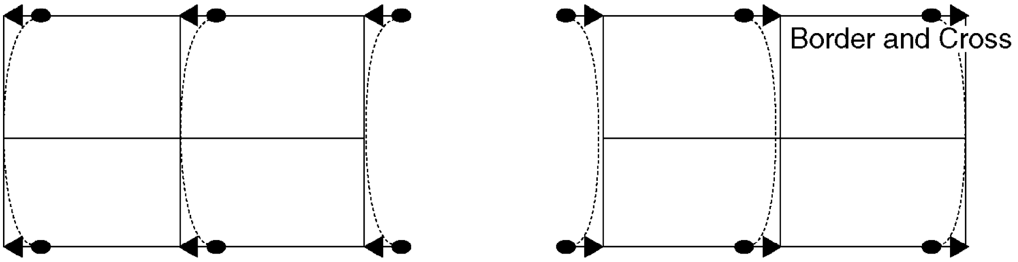


Fig.F : CORNER

10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY".Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

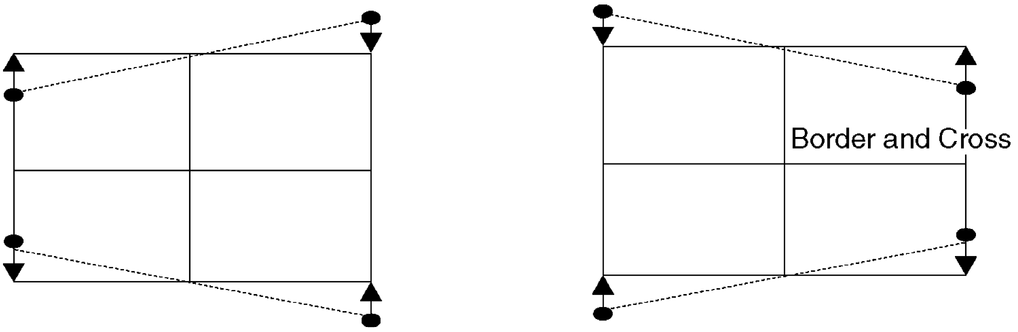


Fig.G : KEY

10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC".Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

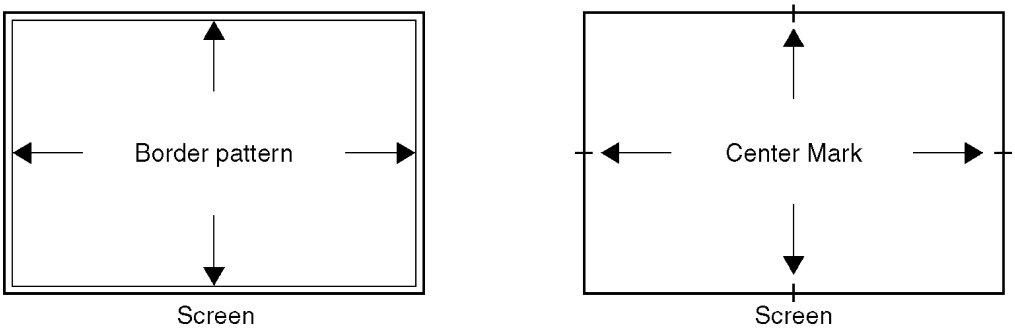


Fig.H STATIC

10.3.2. Red Coarse Convergence Adjustment

10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Yellow" colour.Push the "POSITION" button, and adjust the "R-STATIC" so that the Redcolor of pattern is aligned with Green colour of pattern.

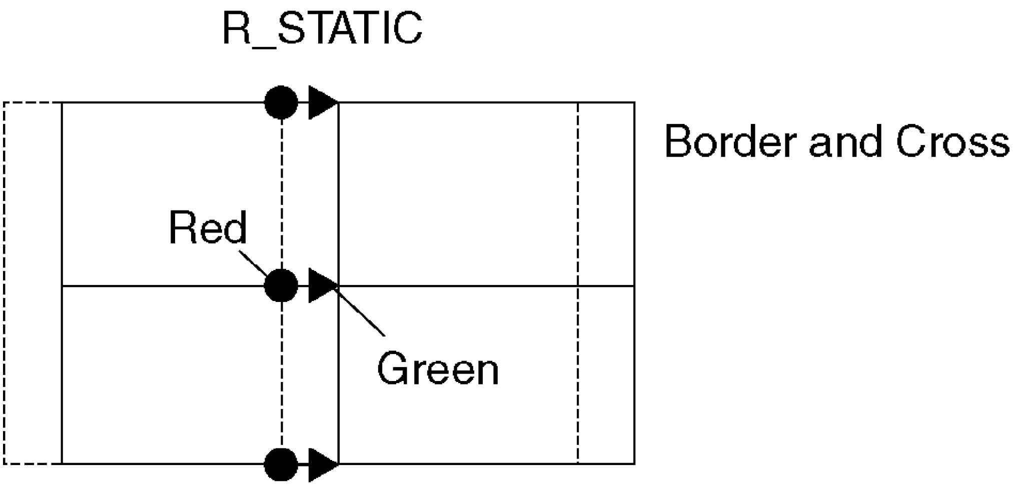


Fig.I : R-STATIC

10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

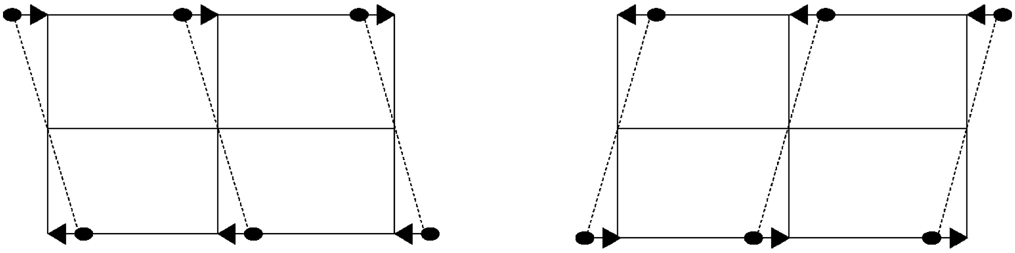


Fig.J : SKEW(V)

10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

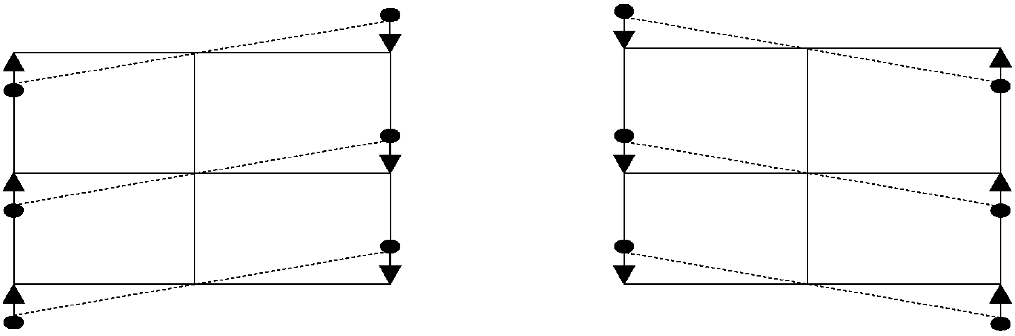


Fig.K : SKEW(H)

10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR".Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER".Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY".Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

10.3.3. Blue Coarse Convergence Adjustment

10.3.3.1. Reparation

Push the "SOUND" button, and select the Blue Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Cyan" colour.Push the "POSITION" button, and adjust the "B-STATIC" so that the Bluecolor of pattern is aligned with Green colour of pattern.

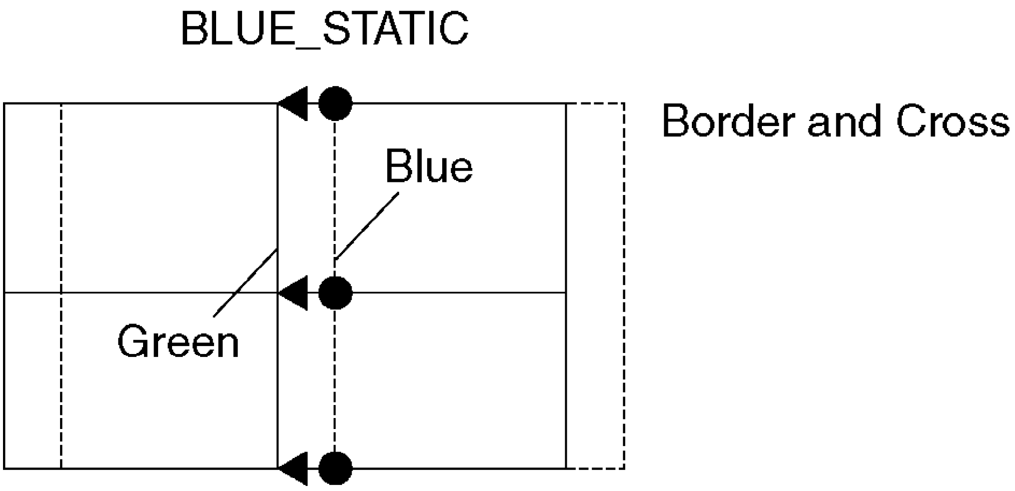


Fig.L : B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR".Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Channel up/down" buttons, and adjust the "B-PIN (V)" (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER".Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY".Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

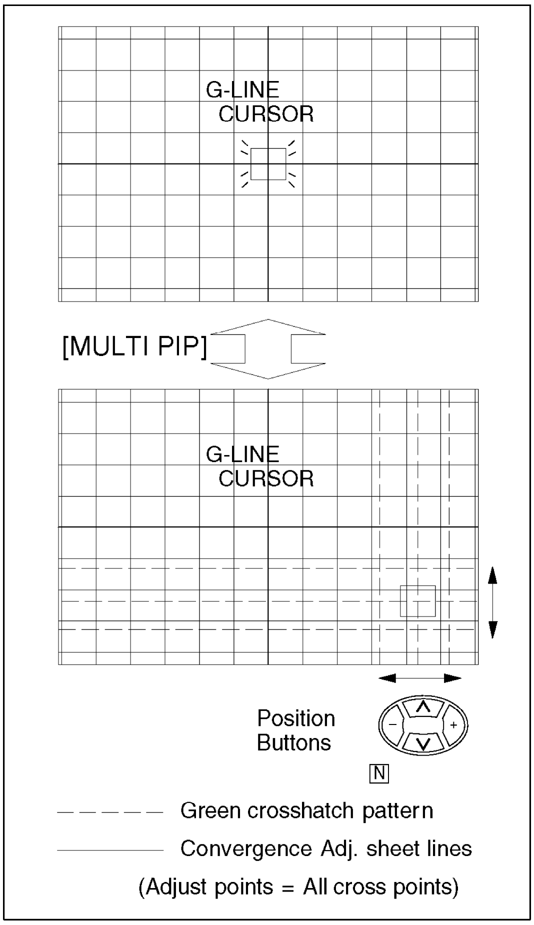
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark.(Refer to Fig. H.)

10.4. Fine Convergence Adjustment

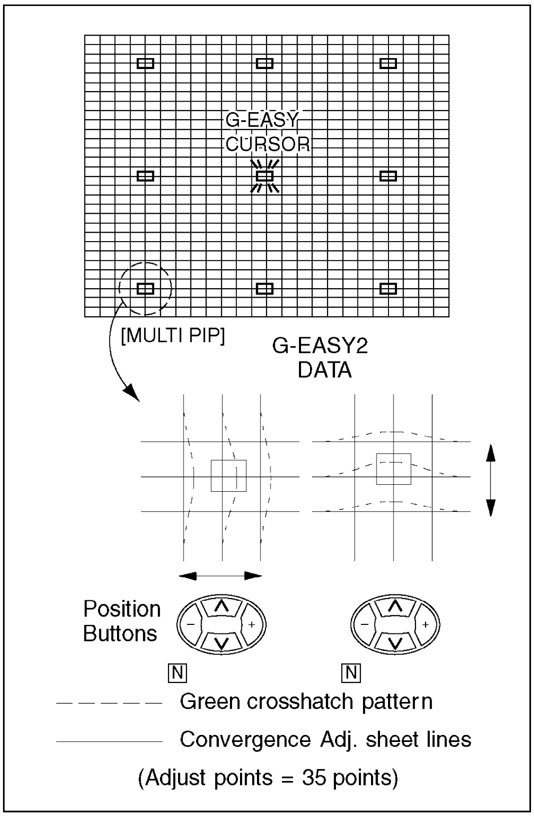
10.4.1. Green Convergence Adjustment

1. **Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control**

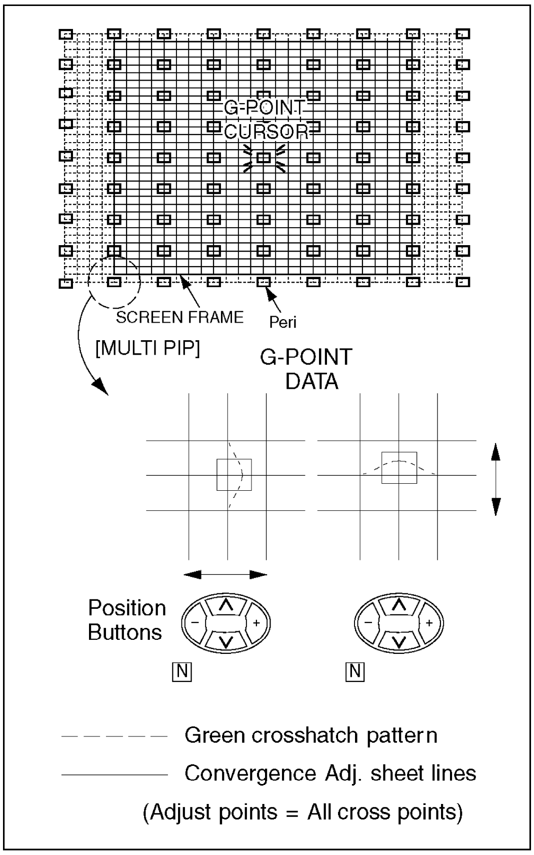

G-LINE CURSOR
[MULTI PIP]
G-LINE CURSOR
Position Buttons
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = All cross points)

2. **Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".**
3. **Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.**
4. **Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".**
5. **Repeat step 2~4 to adjust the vertical lines (13) and the horizontal lines (9).**
6. **Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.**
7. **Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".**

8. **Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.**
9. **Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".**
10. **Repeat step 7~9 to adjust the 9 adjustment points.**


G-EASY CURSOR
[MULTI PIP]
G-EASY2 DATA
Position Buttons
N
N
– – – – – Green crosshatch pattern
——— Convergence Adj. sheet lines
(Adjust points = 35 points)

11. **Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.**
12. **Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".**
13. **Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.**
14. **Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".**
15. **Repeat step 12-14 to adjust all of adjustment points.**


G-POINT
CURSOR
SCREEN FRAME
Peri
[MULTI PIP]
G-POINT
DATA
Position
Buttons
N
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = All cross points)

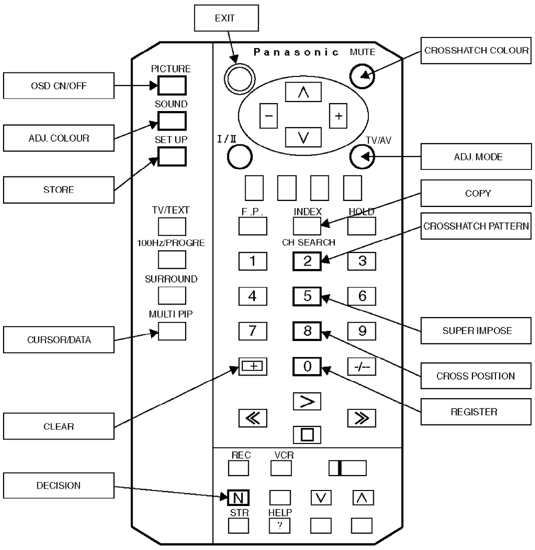
16. **Adjust the LINE, EASY and POINT DATA again viewing all over the screen.**
    If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.
17. **To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E_2 PROM).**
18. **Remove the Convergence Adjustment Sheet from the screen.**

10.4.2. Red Convergence Adjustment

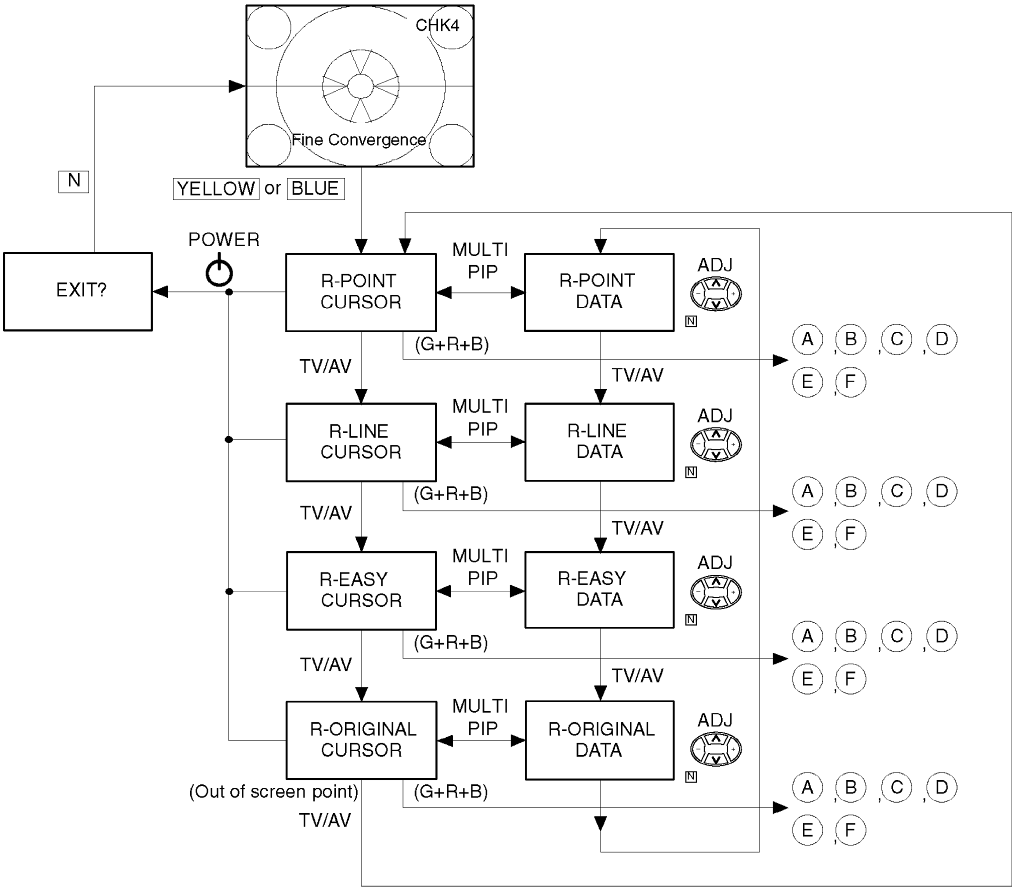
1. **Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.**
2. **Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.**
3. **To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.**

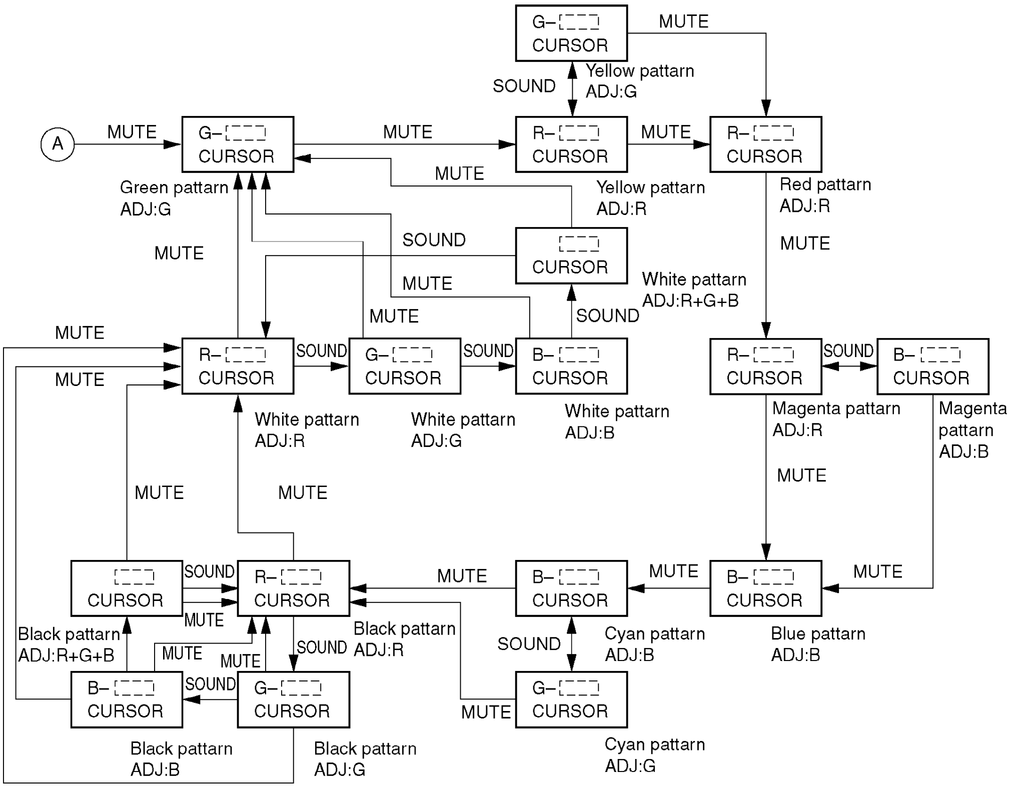
10.4.3. Blue Convergence Adjustment

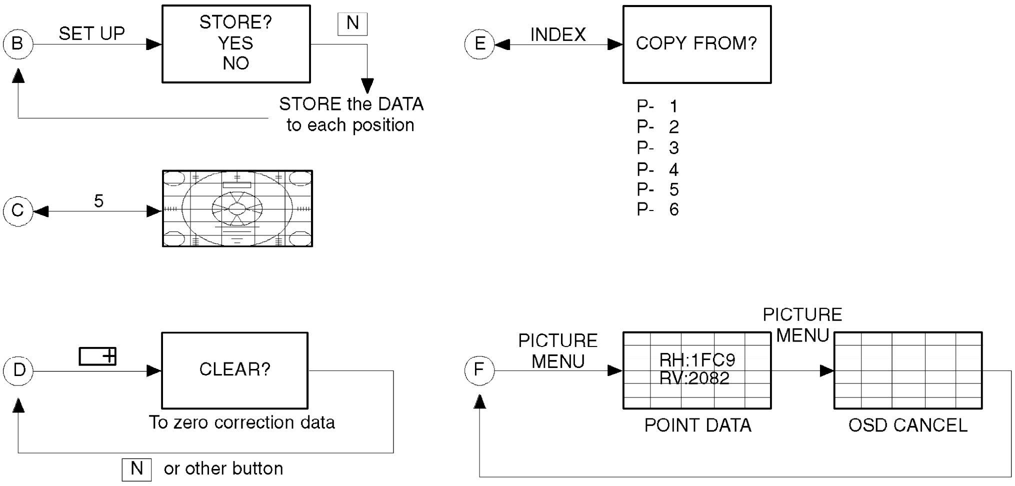
1. **Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.**
2. **Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.**
3. **To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.**
4. **To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button. Repeat the same adjustment after inputting the 60Hz (NTSC) signal.**


EXIT
Panasonic
MUTE
CROSSHATCH COLOUR
OSD ON/OFF
PICTURE
SOUND
ADJ. COLOUR
SET UP
I/II
TV/AV
ADJ. MODE
STORE
COPY
TV/TEXT
F.P.
INDEX
HOLD
CROSSHATCH PATTERN
100Hz/PROGRE
CH SEARCH
1
2
3
SURROUND
4
5
6
MULTI PIP
7
8
9
SUPER IMPOSE
CURSOR/DATA
0
-/--
CROSS POSITION
REGISTER
CLEAR
REC
VCR
DECISION
N
STR
HELP
?

Fine Convergence Control Chart

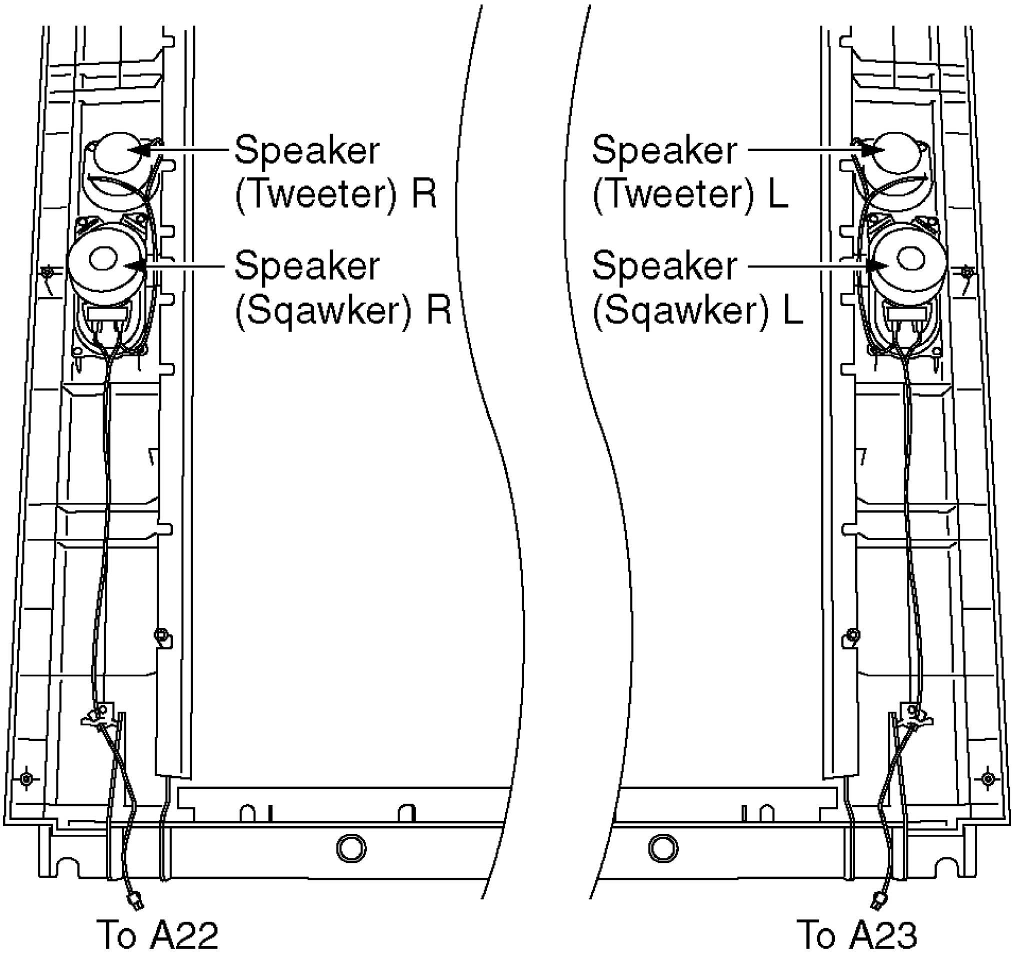

CHK4
Fine Convergence
N
YELLOW or BLUE
POWER
EXIT?
R-POINT CURSOR
MULTI PIP
R-POINT DATA
ADJ
N
(G+R+B)
TV/AV
TV/AV
A, B, C, D
E, F
R-LINE CURSOR
MULTI PIP
R-LINE DATA
ADJ
N
(G+R+B)
TV/AV
TV/AV
A, B, C, D
E, F
R-EASY CURSOR
MULTI PIP
R-EASY DATA
ADJ
N
(G+R+B)
TV/AV
TV/AV
A, B, C, D
E, F
R-ORIGINAL CURSOR
MULTI PIP
R-ORIGINAL DATA
ADJ
N
(Out of screen point)
(G+R+B)
TV/AV
A, B, C, D
E, F


G–[ ] CURSOR
MUTE
SOUND
Yellow pattarn ADJ:G
A
MUTE
G–[ ] CURSOR
MUTE
R–[ ] CURSOR
MUTE
R–[ ] CURSOR
MUTE
Green pattarn ADJ:G
Yellow pattarn ADJ:R
Red pattarn ADJ:R
MUTE
MUTE
SOUND
[ ] CURSOR
White pattarn ADJ:R+G+B
MUTE
SOUND
MUTE
MUTE
MUTE
R–[ ] CURSOR
SOUND
G–[ ] CURSOR
SOUND
B–[ ] CURSOR
R–[ ] CURSOR
SOUND
B–[ ] CURSOR
White pattarn ADJ:R
White pattarn ADJ:G
White pattarn ADJ:B
Magenta pattarn ADJ:R
Magenta pattarn ADJ:B
MUTE
MUTE
MUTE
[ ] CURSOR
SOUND
R–[ ] CURSOR
MUTE
B–[ ] CURSOR
MUTE
B–[ ] CURSOR
MUTE
MUTE
Black pattarn ADJ:R+G+B
MUTE
MUTE
Black pattarn ADJ:R
SOUND
Cyan pattarn ADJ:B
Blue pattarn ADJ:B
SOUND
B–[ ] CURSOR
SOUND
G–[ ] CURSOR
MUTE
G–[ ] CURSOR
Black pattarn ADJ:B
Black pattarn ADJ:G
Cyan pattarn ADJ:G

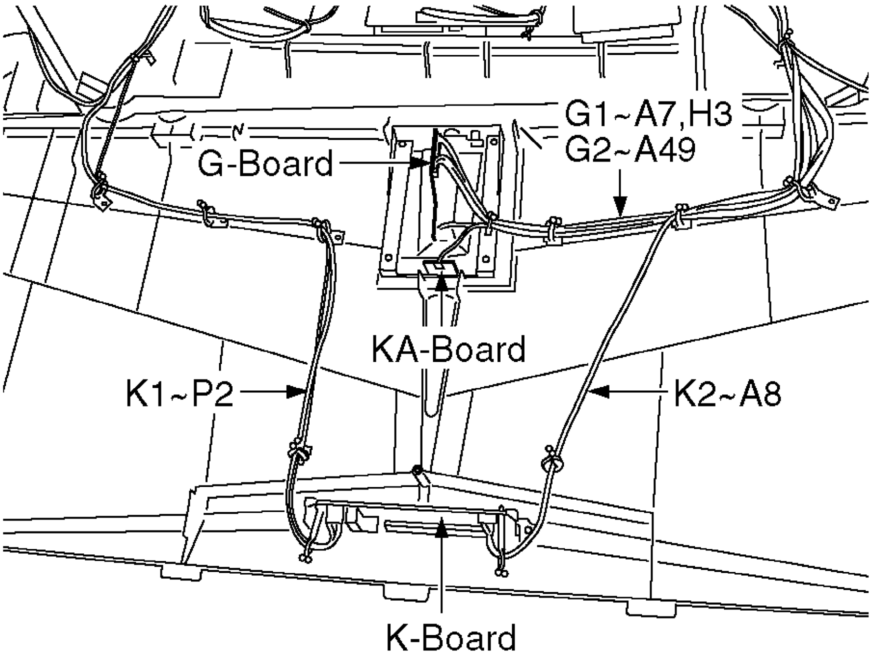

B
SET UP
STORE?
YES
NO
N
STORE the DATA
to each position
C
5
D
CLEAR?
To zero correction data
N
or other button
E
INDEX
COPY FROM?
P- 1
P- 2
P- 3
P- 4
P- 5
P- 6
F
PICTURE
MENU
RH:1FC9
RV:2082
POINT DATA
PICTURE
MENU
OSD CANCEL

11. Location of Lead Wiring

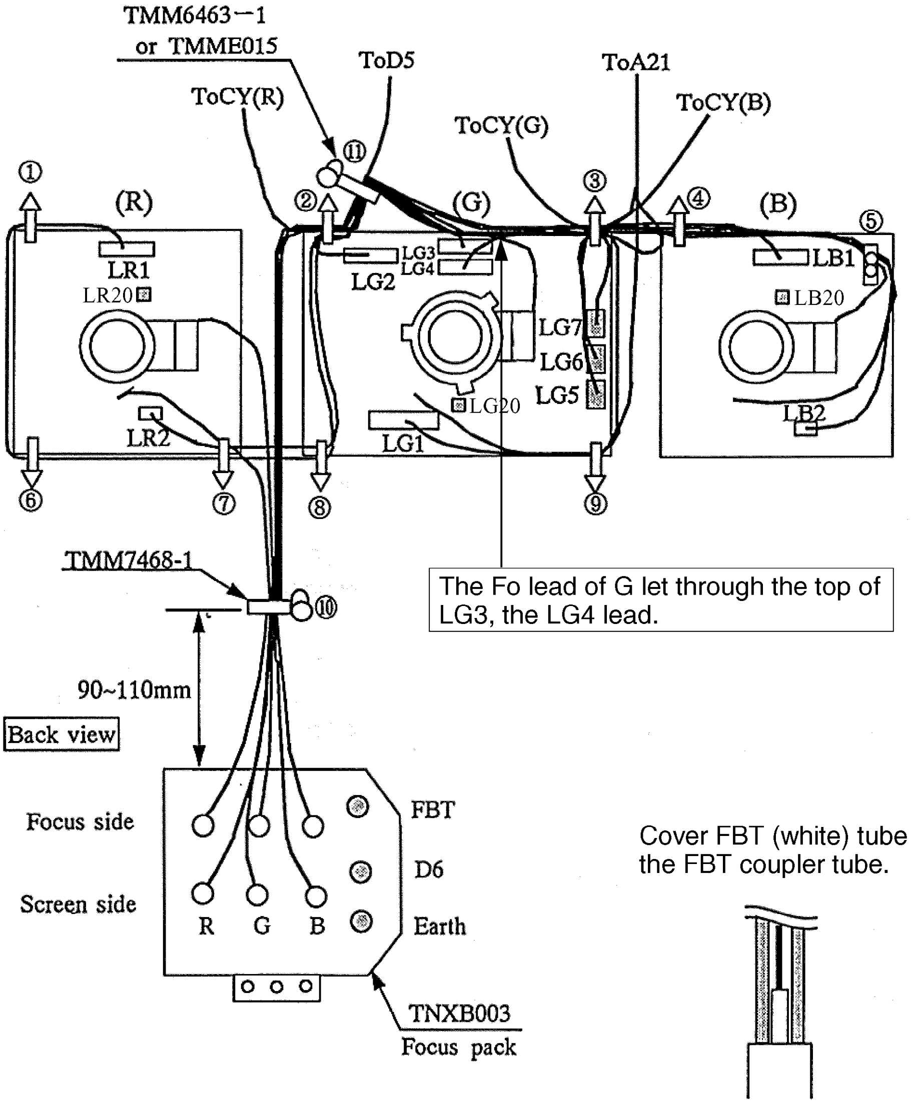
11.1. Location of Lead Wiring (1)


Speaker
(Tweeter) R
Speaker
(Sqawker) R
Speaker
(Tweeter) L
Speaker
(Sqawker) L
To A22
To A23

11.2. Location of Lead Wiring (2)


G1~A7,H3
G2~A49
G-Board
KA-Board
K1~P2
K2~A8
K-Board

11.3. Location of Lead Wiring (3)


TMM6463−1
or TMME015
ToD5
ToA21
ToCY(R)
ToCY(G)
ToCY(B)
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
(R)
(G)
(B)
LR1
LR20
LR2
LG2
LG3
LG4
LG7
LG6
LG5
LG20
LG1
LB1
LB20
LB2
TMM7468-1
90~110mm
Back view
Focus side
Screen side
R
G
B
FBT
D6
Earth
TNXB003
Focus pack

The Fo lead of G let through the top of LG3, the LG4 lead.

Cover FBT (white) tube to the FBT coupler tube.

(Attention)
The lead line doesn't come within 5 millimeters of the neightborhood of the focus block,too.

INSERTION OF CONNECTOR
LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2, LR20, LG20, LB20

CLAMP DOUBLE CLAMP : ◎

CLAMPER / WIRES	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
CY(R)		●	●								●									
CY(G)			◎																	
CY(B)			◎																	
Focus(R)										●										
Focus(G)		●								●	●									
Focus(B)		●	●	●	●					●	●									
Screen(R)							●			●										
Screen(G)		●	●						●	●	●									
Screen(B)		●	●	●	●					●	●									
LR1~LG3	●	●				●	●	●			●									
LR2~A21		●	●				●	●			●									
LG1~A21									●											
LG4~LB1			●	●																
LG2~D5		●									●									
LB2				●	●															

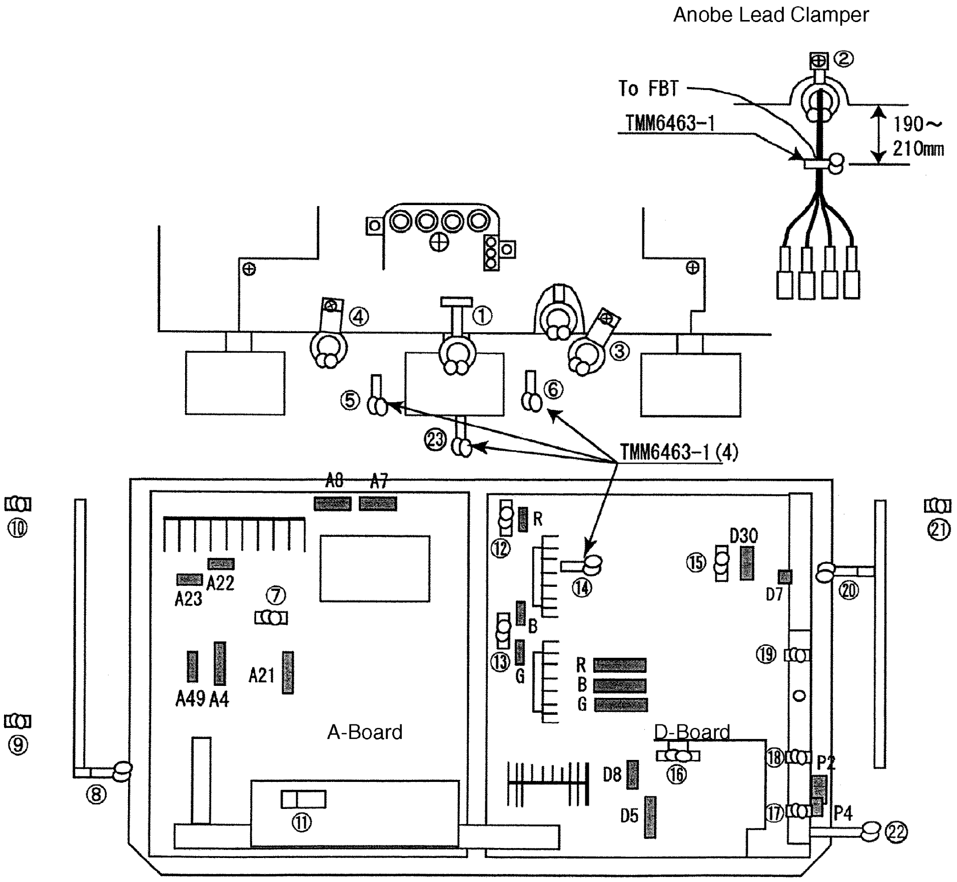
NOTICE FOR WORE DRESSING

1. **Confirm that the lead line isn’t hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.**
2. **It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.**
3. **It decides to be permitted to insert G, B of the DY lead in either.**
4. **Keep the Fo lead of B clear of components of the LB-Board and IC2301 heat sink of the A-Board.**

11.4. Location of Lead Wiring (4)

The Anode Lead

1. **It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it. (Three insertion positions are free).**
2. **Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.**


Anobe Lead Clamper
②
To FBT
TMM6463-1
190~
210mm
④
①
③
⑤
⑥
㉓
TMM6463-1 (4)
A8
A7
⑩
㉑
A22
A23
⑦
A21
A49 A4
⑨
⑧
A-Board
⑪
R
⑫
⑭
D30
⑮
D7
⑳
B
⑬
G
R
B
G
⑲
D-Board
⑯
D8
⑱
P2
D5
⑰
P4
㉒

INSERTION OF CONNECTOR

A6, A7, A21, A22, A23, A49, Anode distributor (R, G, B, FBT), D8, D5, DY (R, G, B), CY (R, G, B), D30, P1, P2, P4, Focus Pack (R)

CLAMP DOUBLE CLAMP : ◎

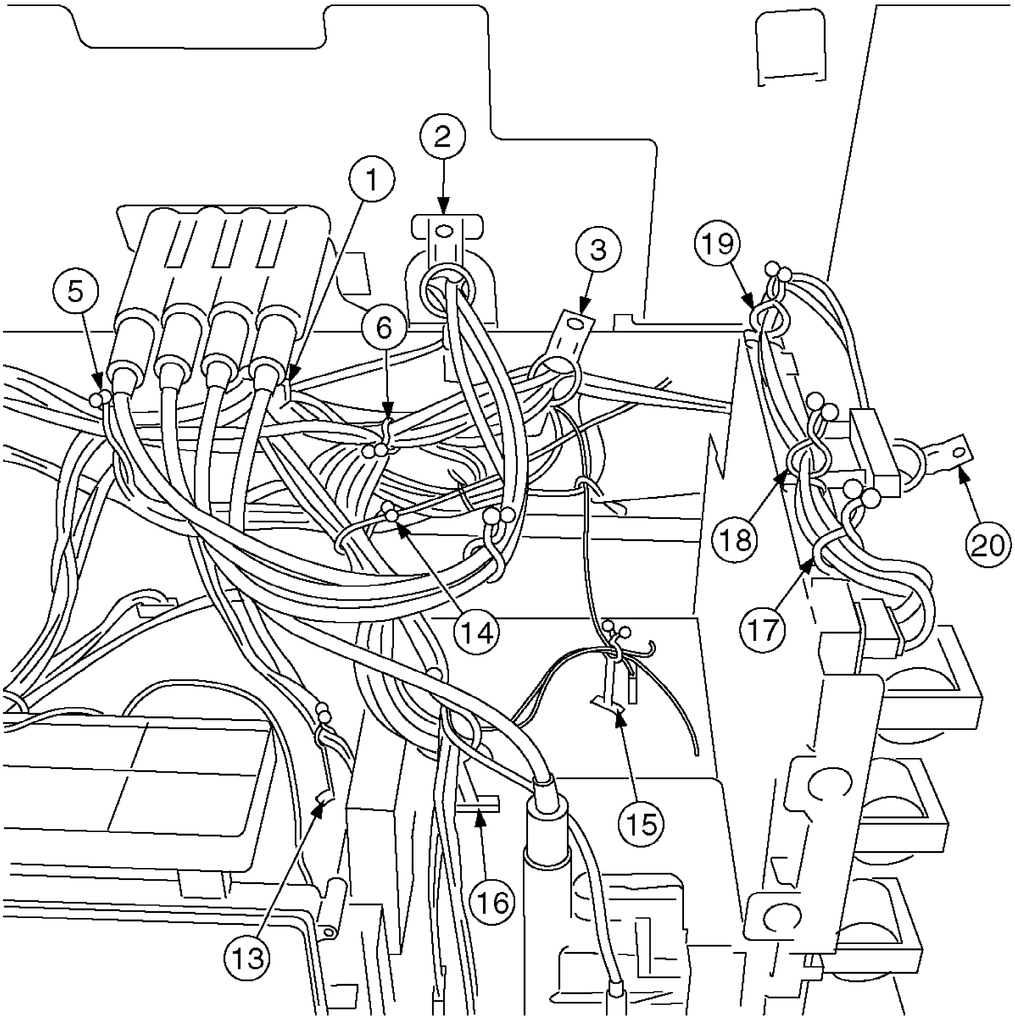
CLAMPER / WIRES	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓
A22~RSP							◎	●	●	●													
B~DY	●		●			◎								●		●							
B~CY	●			◎	◎								●										
G~DY	●		●			◎								●		●							
G~CY	●			◎	◎								●										
R~DY	●		●			◎								●		●							
R~CY	●			◎	◎							●											●
D8~Distributor	●													●		●							
G2~A49								●	●	●													
A6~K2							●	●	●	●													
A2~LB2, LG1, LR2							◎																
A23~LSP	●		●		●	●	◎													●	●		
LG2~D5				●	◎	●								●		●							
FBT~Focus pack	●													●		●							
D30~Focus pack	●													●	●	●							
K1~P2																	●	●	●	●	●		
Cabinet earth~P4																	●	●	●	●			
AC cord																						●	
G1~A7, H3							●	●	●	●	●												
D7~DG	●		●		●						●				●								

A7 only H3 only

NOTICE FOR WIRE DRESSING

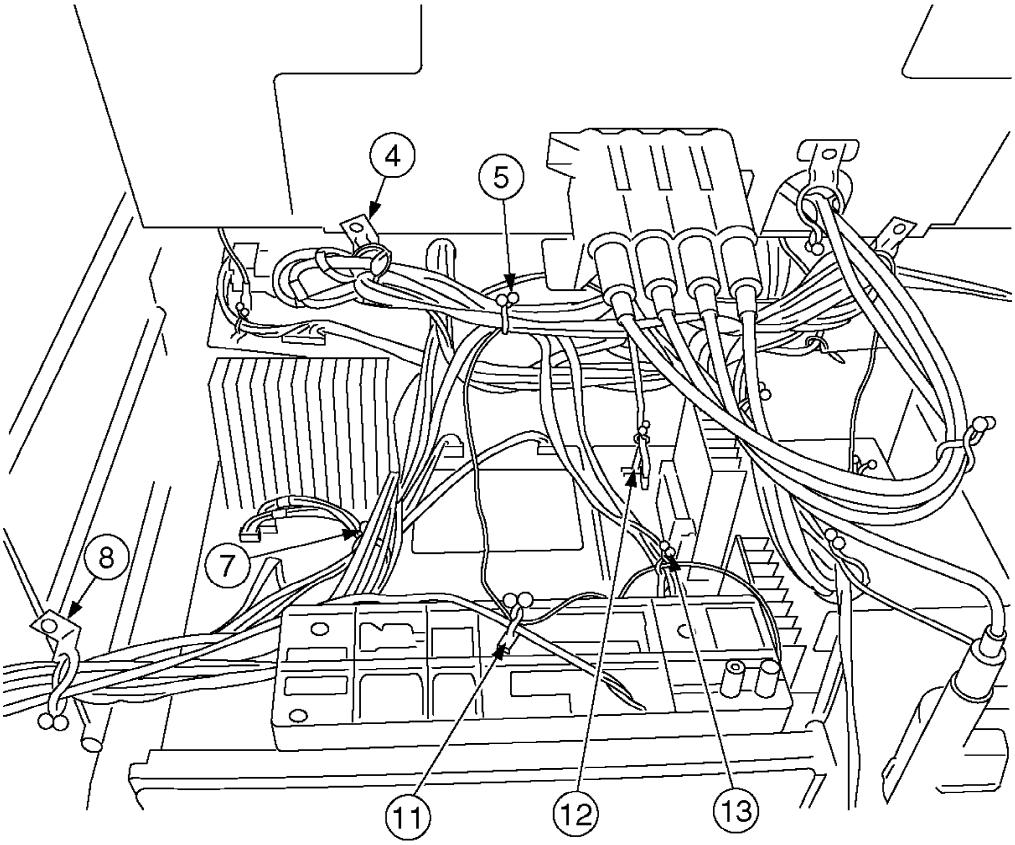
1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

11.5. Location of Lead Wiring (5)

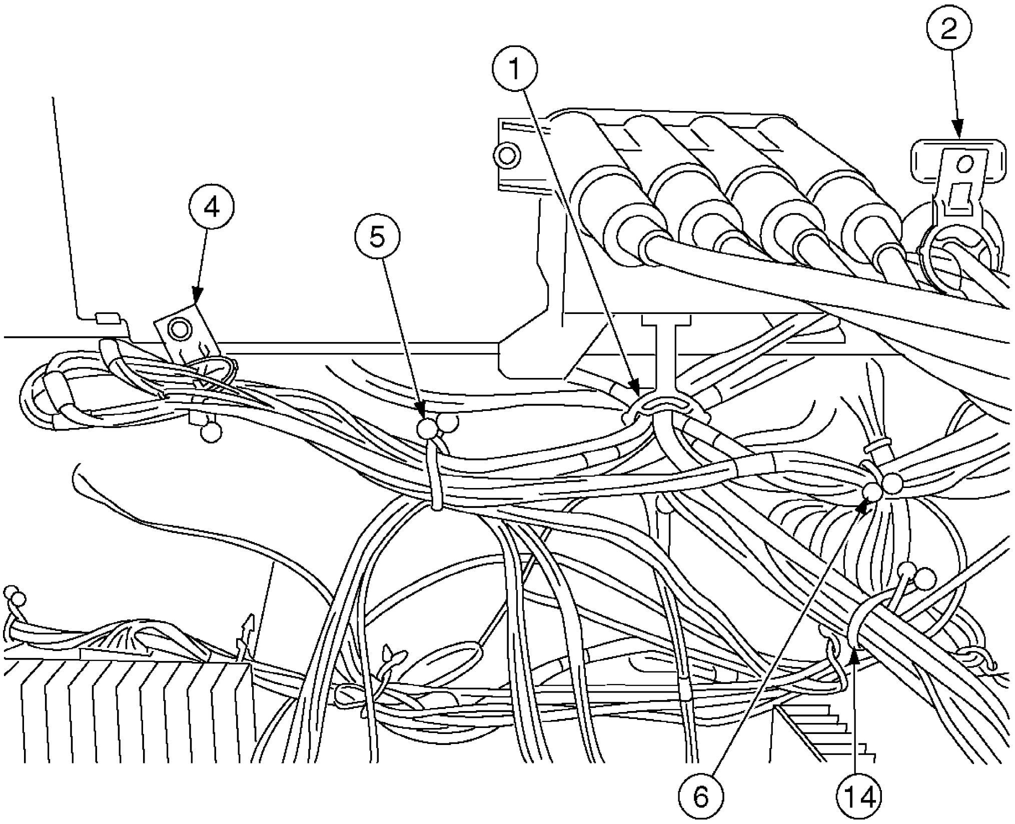


2
1
3
19
5
6
18
20
14
17
15
16
13

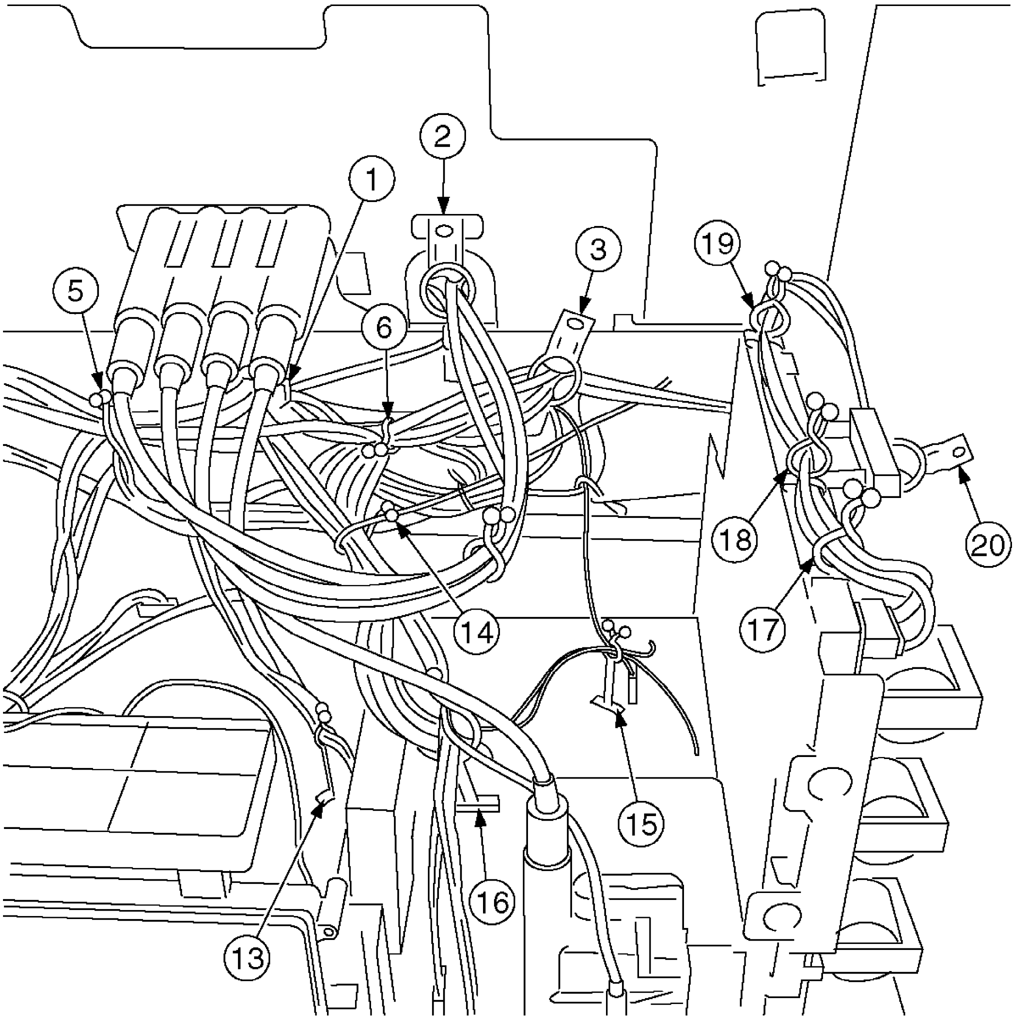
11.6. Location of Lead Wiring (6)


4
5
7
8
11
12
13

11.7. Location of Lead Wiring (7)



11.8. Location of Lead Wiring (8)


1
2
3
5
6
13
14
15
16
17
18
19
20

12. Conductor Views

12.1. A-Board

12.2. D-Board

12.3. DC-Board

12.4. DG-Board

12.5. H-Board

12.6. LG, LR and LB Board

12.7. P-Board

12.8. U-Board

12.9. G, K and KA-Board

13. Block Diagram

13.1. Audio Block Diagram

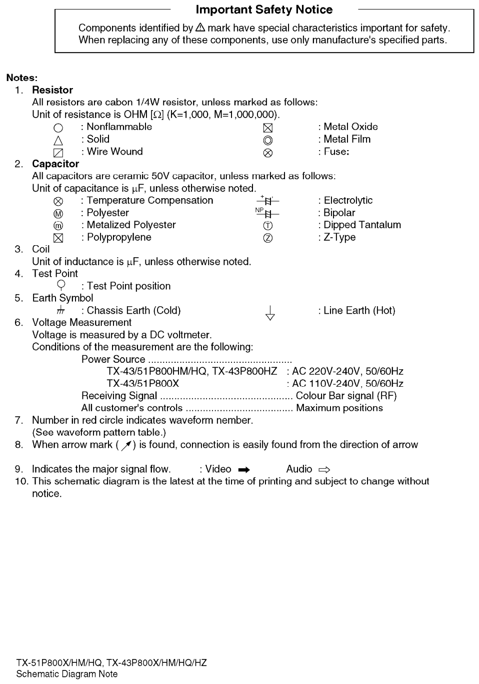
13.2. Video Block Diagram

13.3. Power Block Diagram

13.4. Control Block Diagram

14. Schematic Diagram

14.1. Schematic Diagram Notes



Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).

○	: Nonflammable	☒	: Metal Oxide
△	: Solid	◎	: Metal Film
⧄	: Wire Wound	⊗	: Fuse:

2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.

⊗	: Temperature Compensation	+	: Electrolytic
Ⓜ	: Polyester	NP	: Bipolar
ⓜ	: Metalized Polyester	Ⓣ	: Dipped Tantalum
☒	: Polypropylene	Ⓩ	: Z-Type

3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....
   TX-43/51P800HM/HQ, TX-43P800HZ : AC 220V-240V, 50/60Hz
   TX-43/51P800X : AC 110V-240V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
Schematic Diagram Note

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
Schematic Diagram Note

14.2. A-Board (1 of 5) Schematic Diagram

14.3. A-Board (2 of 5) Schematic Diagram

14.4. A-Board (3 of 5) Schematic Diagram

14.5. A-Board (4 of 5) Schematic Diagram

14.6. A-Board (5 of 5) Schematic Diagram

14.7. D-Board (1 of 2) Schematic Diagram

14.8. D-Board (2 of 2) Schematic Diagram

14.9. DC-Board Schematic Diagram

14.10. DG-Board (1 of 6) Schematic Diagram

14.11. DG-Board (2 of 6) Schematic Diagram

14.12. DG-Board (3 of 6) Schematic Diagram

14.13. DG-Board (4 of 6) Schematic Diagram

14.14. DG-Board (5 of 6) Schematic Diagram

14.15. DG-Board (6 of 6) Schematic Diagram

14.16. H-Board (1 of 2) Schematic Diagram

14.17. H-Board (2 of 2) Schematic Diagram

14.18. LG-Board Schematic Diagram

14.19. LR and LB-Board Schematic Diagram

14.20. P-Board Schematic Diagram

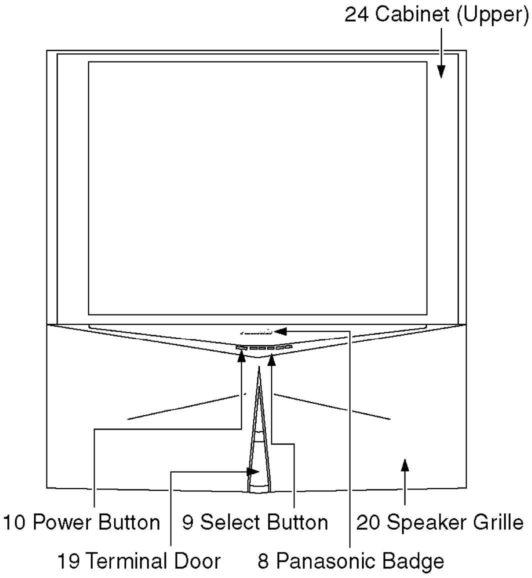
14.21. U-Board (1 of 2) Schematic Diagram

14.22. U-Board (2 of 2) Schematic Diagram

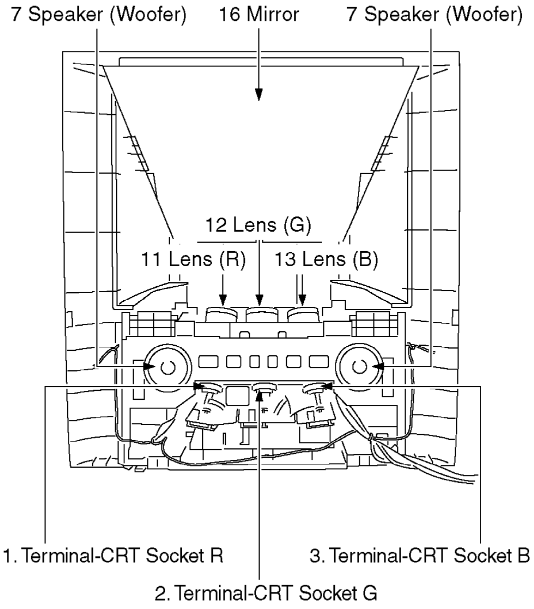
14.23. G, K and KA Board Schematic Diagram

15. Parts Location

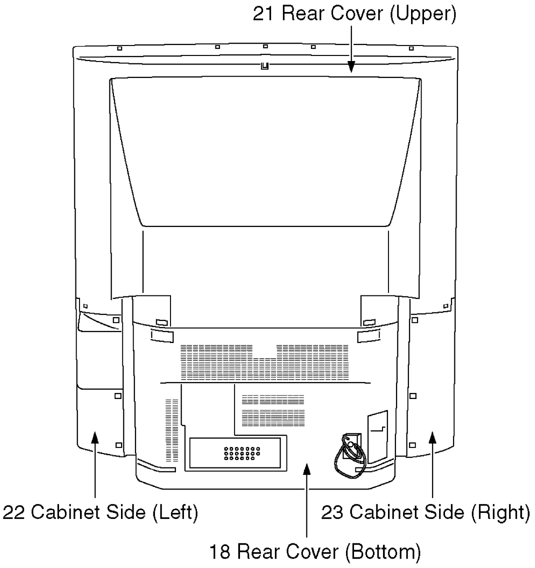
Front View (1)


24 Cabinet (Upper)
10 Power Button
9 Select Button
20 Speaker Grille
19 Terminal Door
8 Panasonic Badge

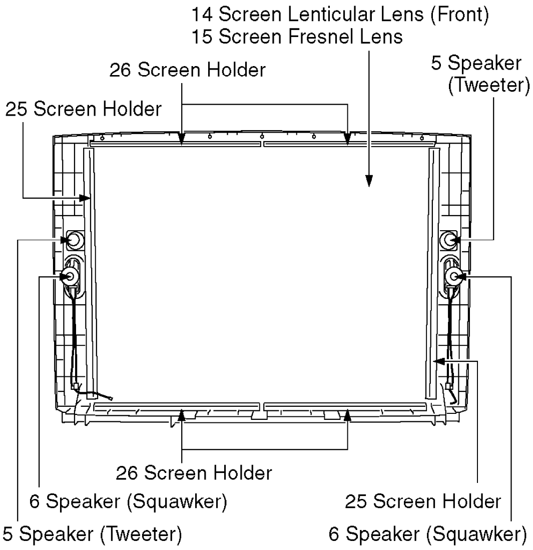
Front View (2)


7 Speaker (Woofer)
16 Mirror
7 Speaker (Woofer)
12 Lens (G)
11 Lens (R)
13 Lens (B)
1. Terminal-CRT Socket R
3. Terminal-CRT Socket B
2. Terminal-CRT Socket G

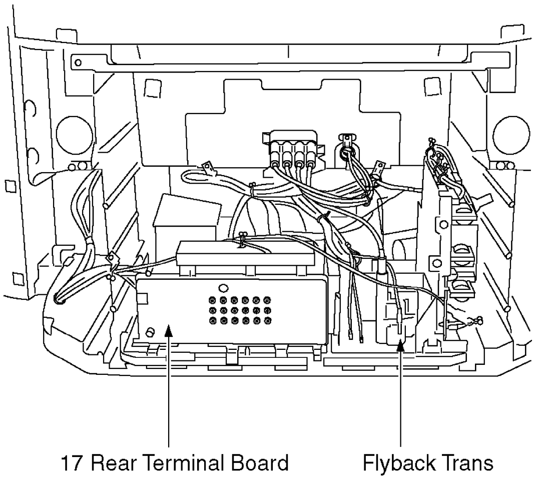
Rear View (1)


21 Rear Cover (Upper)
22 Cabinet Side (Left)
23 Cabinet Side (Right)
18 Rear Cover (Bottom)

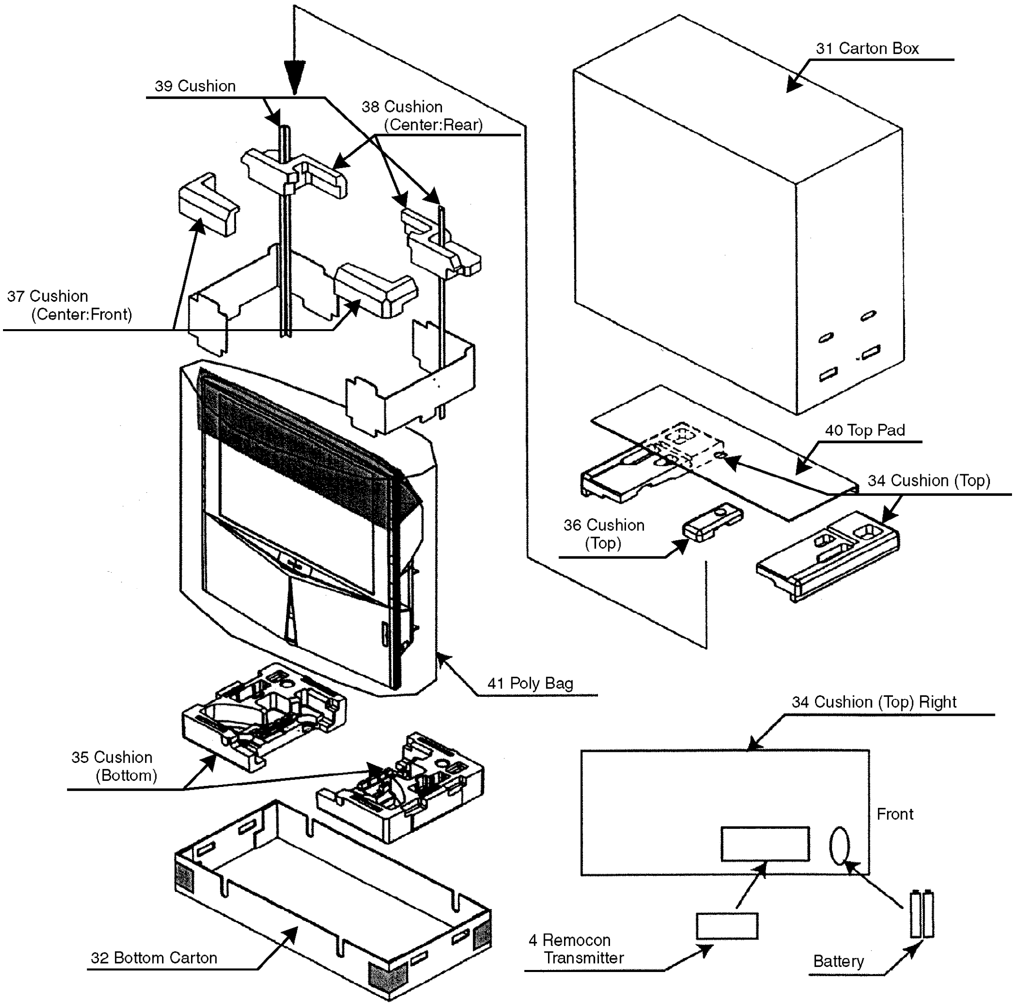
Rear View (2)

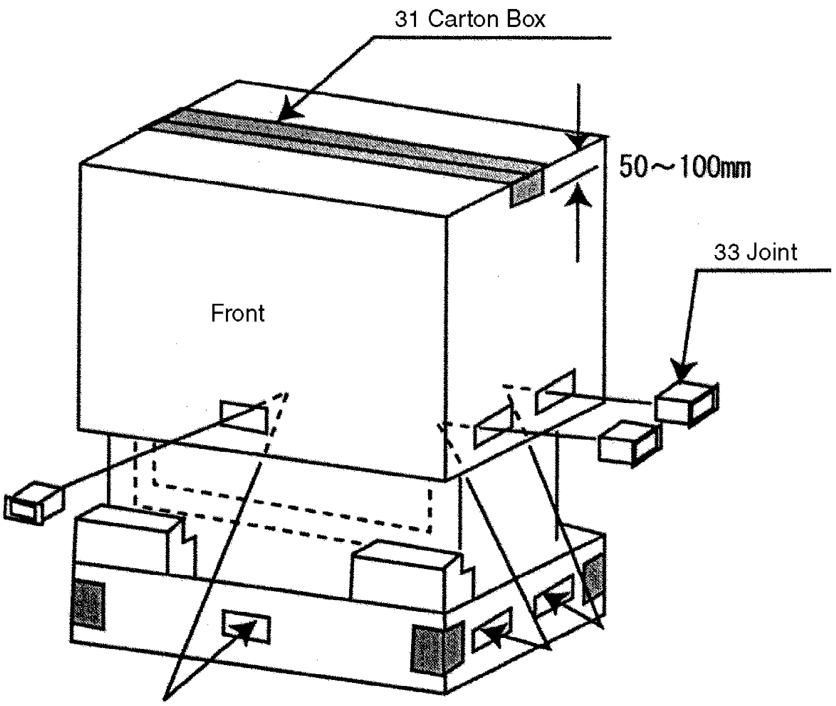

14 Screen Lenticular Lens (Front)
15 Screen Fresnel Lens
26 Screen Holder
5 Speaker (Tweeter)
25 Screen Holder
26 Screen Holder
6 Speaker (Squawker)
25 Screen Holder
5 Speaker (Tweeter)
6 Speaker (Squawker)

Rear View (3)


17 Rear Terminal Board
Flyback Trans

16. Packing Exploded View


31 Carton Box
39 Cushion
38 Cushion (Center:Rear)
37 Cushion (Center:Front)
40 Top Pad
34 Cushion (Top)
36 Cushion (Top)
41 Poly Bag
34 Cushion (Top) Right
35 Cushion (Bottom)
Front
32 Bottom Carton
4 Remocon Transmitter
Battery



17. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	3F1032072220	TERMINAL-CRT SOCKET R	1	
2	3F1032072350	TERMINAL-CRT SOCKET G	1	
3	3F1032072570	TERMINAL-CRT SOCKET B	1	
	D9ZZ00000075	FOCUS CONTROL VLUME	1	D9ZZ00000079 ⚠
4	EUR511254	REMOCON TRANSMITTER	1	
	KDY2ASG12F	DEFLECTION YOKE	3	⚠
	KFT7CP336F	HIGH VOLTAGE DIVISION	1	⚠
5	L0AA05A00045	SPEAKER (TWEETER)	2	51 inch model
6	L0AA12B00006	SPEAKER (SQUAWKER)	2	51 inch model
6	L0AA12B00008	SPEAKER	2	43 inch model
7	L0AA13A00003	SPEAKER(W00FER)	2	
	TBLB0010	CASTER	4	
8	TBMA071	PANASONIC BADGE	1	
9	TBX0A83201	SELECT BUTTON	1	
10	TBX0A83301	POWER BUTTON	1	
	TEKC029	DANPER	1	
	TES0A213	SPRING	1	
	TES202	SPRING	2	43 inch model
	TES6583	SPRING FOR TR	2	
	TESA016	CRT FIXING PLATE	4	43 inch model
	TESA017	CRT FIXING PLATE	4	43 inch model
	TESA031	SPRING	1	51 inch model
	TESA031	SPRING	2	43 inch model
	THEC071U	SCREW	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	THT1062	SCREW	6	43 inch model
	THTA006Z	SCREW	46	51 inch model
	THTA006Z	SCREW	45	43 inch model
	TJS2A8420	AC CORD ADAPTOR	1	K2DR42D00001 TX-51P800X,TX-43P800X
11	TKGF0089	LENS (R)	1	51 inch model
11	TKGF0094	LENS (R)	1	43 inch model
12	TKGF0090	LENS (G)	1	51 inch model
12	TKGF0095	LENS (G)	1	43 inch model
13	TKGF0091	LENS (B)	1	51 inch model
13	TKGF0096	LENS (B)	1	43 inch model
14	TKGH5077	SCREEN LENTICULAR LENS	1	51 inch model
14	TKGH5079	SCREEN LENTICULAR LENS	1	43 inch model
15	TKGH5078	SCREEN FRESNEL LENS	1	51 inch model
15	TKGH5080	SCREEN FRESNEL LENS	1	43 inch model
16	TKGJ5078	MIRROR	1	51 inch model
16	TKGJ5079	MIRROR	1	43 inch model
	TKGJ5097	MIRROR	1	43 inch model
	TKJC005-1	SPEAKER BORAD (LEFT)	1	51 inch model
	TKJC006-1	SPEAKER BORAD (RIGHT)	1	51 inch model
	TKK0A8521	LED PANEL	1	43 inch model
	TKK0A8522	RECIEVER PANEL	1	43 inch model
	TKK0A8523	TERMNAL DOOR	1	
	TKKF5046-1	COVER	1	
	TKKH5061	COVER	2	
	TKKL5268	AC CORD COVER	1	
17	TKP0AA7505	REAR TERMINAL BOARD	1	
	TLHX015	R/G/B COIL	3	
	TMKX267	SHEET FOR IC	1	51 inch model
	TMKX268	SHEET FOR IC	1	51 inch model
	TMM0A436	A-PCB GUIDE	2	
	TMM0A512	POWER BUTTON SPEACER	1	
	TMM14444	CLAMPER	1	51 inch model
	TMM14520	VALVE	3	43 inch model
	TMM15582	SPEACER	2	
	TMM16452	CLAMPER	9	51 inch model
	TMM16452	CLAMPER	8	43 inch model
	TMM16473-1	CLAMPER	14	51 inch model
	TMM16473-1	CLAMPER	17	43 inch model
	TMM16480-1	CLAMPER	3	51 inch model
	TMM16480-1	CLAMPER	1	43 inch model
	TMM16497-1	CLAMPER	8	
	TMM3565	RUBBER CAP	3	51 inch model
	TMM3565	RUBBER CAP	4	43 inch model
	TMM6428-1	CLAMPER	8	51 inch model
	TMM6428-1	CLAMPER	5	43 inch model
	TMM6463-1	CLAMPER	4	51 inch model
	TMM6463-1	CLAMPER	5	43 inch model
	TMM7464-2	CLAMPER	1	51 inch model
	TMM7464-2	CLAMPER	4	43 inch model
	TMM7468-1	CLAMPER	1	
	TMM76403-1	CLAMPER	1	51 inch model
	TMM76430-1	CLAMPER	3	51 inch model
	TMM76430-1	CLAMPER	4	43 inch model

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMME047	CLAMPER	1	
	TMMJ006	SPACER	3	43 inch model
	TMMJ007	SPACER	3	43 inch model
	TMMX006	SPACER	3	43 inch model
	TMMX027-2	HOLDER	1	
	TMW0A701	LED HOLDER	1	43 inch model
	TMWJ032	LED SPACER	1	43 inch model
	TMX0A414	BRACKET	1	
	TMZ0A9102	DOOR FRAME	1	
	TMZ159837-1	CRT BOSS	2	
31	TPCB40702	CARTON BOX	1	TX-51P800X
31	TPCB41102	CARTON BOX	1	TX-43P800X
31	TPCB40701	CARTON BOX	1	TX-51P800HM/HQ
31	TPCB41101	CARTON BOX	1	TX-43P800HM/HQ/HZ
32	TPCB40801	BOTTOM CARTON	1	51 inch model
32	TPCB41201	BOTTOM CARTON	1	43 inch model
33	TPD169487	JOINT	6	
34	TPDA0774	CUSHION (TOP)	1	51 inch model
34	TPDA0784	CUSHION (TOP)	1	43 inch model
35	TPDA0775	CUSHION (BOTTOM)	1	51 inch model
35	TPDA0785	CUSHION (BOTTOM)	1	43 inch model
36	TPDA0776	CUSHION (TOP)	1	51 inch model
36	TPDA0786	CUSHION (TOP)	1	43 inch model
37	TPDA0777	CUSHION (CENTER:FRONT)	1	51 inch model
37	TPDA0787	CUSHION (CENTER:FRONT)	1	43 inch model
38	TPDA0778	CUSHION (CENTER:REAR)	1	51 inch model
38	TPDA0788	CUSHION (CENTER:REAR)	1	43 inch model
39	TPDF0843	CUSHION	2	51 inch model
39	TPDF0844	CUSHION	2	43 inch model
40	TPDF1056	TOP PAD	1	51 inch model
40	TPDF1058	TOP PAD	1	43 inch model
	TPDF1088	CUSHION	1	51 inch model
	TPDF1089	PAD	4	43 inch model
41	TPEH200	POLY BAG	1	
	TPEH213	PROTECT COVER	1	51 inch model
	TPEH090	PROTECT COVER	1	43 inch model
	TQBC0540	INSTRUCTION BOOK(ENGLISH)	1	
	TQBC0541	INSTRUCTION BOOK(ARABIC)	1	TX-51P800X
	TSX5134-3	AC POWER CORD	1	TX-51P800X ⚠
	TSX5132-2	AC POWER CORD	1	TX-51P800HM
	TSX1495	AC POWER CORD	1	TX-51P800HQ
	TSXA106	AC POWER CORD	1	TX-43P800X ⚠
	TSXA5132-2	AC POWER CORD	1	TX-43P800HM ⚠
	TSXA1495	AC POWER CORD	1	TX-43P800HQ/HZ ⚠
18	TTUA0683	REAR COVER(BOTTOM)	1	TX-51P800X
18	TTUA0682	REAR COVER(BOTTOM)	1	TX-51P800HM
18	TTUA0671	REAR COVER(BOTTOM)	1	TX-51P800HQ
18	TTUA0699	REAR COVER(BOTTOM)	1	TX-43P800X
18	TTUA0697	REAR COVER(BOTTOM)	1	TX-43P800HM
18	TTUA0698	REAR COVER(BOTTOM)	1	TX-43P800HQ/HZ
	TTYA0578	CABINET (BOTTOM)	1	51 inch model
	TTYA0615	CABINET (BOTTOM)	1	43 inch model
	TXCB1JBV	PICTURE TUBE (B)	1	51 inch model

	[illegible]	PICTURE TUBE (B)	1	[illegible] inch model

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TXCB1HWV	PICTURE TUBE (B)	1	43 inch model
	TXCG1JBV	PICTURE TUBE (G)	1	
	TXCR1JBV	PICTURE TUBE (R)	1	51 inch model
	TXCR1HWV	PICTURE TUBE (R)	1	43 inch model
19	TXFKK010JBV	TERMNAL DOOR	1	51 inch model
19	TZRKK010JBV	TERMNAL DOOR	1	43 inch model
	TXFKK020JBV	TERMNAL DOOR	1	51 inch model
	TXF3A01BFZ	CRT EARTH LEAD	1	43 inch model
20	TXFKP010JCV	SPEAKER GRILLE	1	TX-51P800X
20	TXFKP010JBV	SPEAKER GRILLE	1	TX-51P800HM/HQ
20	TXFKP010HZV	SPEAKER GRILLE	1	TX-43P800X
20	TXFKP010HWV	SPEAKER GRILLE	1	TX-43P800HM/HQ/HZ
21	TXFKU010JBV	REAR COVER(UPPER)	1	51 inch model
21	TZRKU010HWV	REAR COVER (UPPER)	1	43 inch model
22	TXFKX010JBV	CABINET SIDE (LEFT)	1	51 inch model
22	TXFKX010HWV	CABINET SIDE (LEFT)	1	43 inch model
23	TXFKX020JBV	CABINET SIDE (RIGHT)	1	51 inch model
23	TXFKX020HWV	CABINET SIDE (RIGHT)	1	43 inch model
24	TXFKY010JBV	CABINET (UPPER)	1	51 inch model
24	TZRKY010HWV	CABINET (UPPER)	1	43 inch model
	TXFKY020JBV	CABINET (UPPER)	1	51 inch model
25	TXFMZ010JBV	SCREEN HOLDER(SIDE)	2	51 inch model
25	TXFMZ010HWV	SCREEN HOLDER(SIDE)	2	43 inch model
26	TXFMZ020JBV	SCREEN HOLDER(SIDE)	4	51 inch model
26	TXFMZ010JBV	SCREEN HOLDER(SIDE)	2	43 inch model
	TXJA220JBV-1	SPEAKER LEED(R)	1	43 inch model
	TXJA230JBV-1	SPEAKER LEED(L)	1	43 inch model
	XNP4F	NUT	3	
	XTB4+10J	SCREW	12	
	XTB4+12A	SCREW	13	
	XTB4+12G	SCREW	4	51 inch model
	XTB4+12G	SCREW	5	43 inch model
	XTBT964	SCREW	19	
	XTV3+12AFC	SCREW	2	
	XTV3+12G	SCREW	20	
	XTV3+12GFZ	SCREW	3	
	XTV3+6J	SCREW	2	
	XTW3+10T	SCREW	43	51 inch model
	XTW3+10T	SCREW	37	43 inch model
	XTW3+8T	SCREW	2	51 inch model
	XTW3+8T	SCREW	4	43 inch model
	XTW4+Z15D	SCREW	11	51 inch model
	XTW4+Z15D	SCREW	10	43 inch model
	XTWT983G	SCREW	4	43 inch model
	XWC8B	WASHER	1	
	XWG4	WASHER	3	
	XWG8	WASHER	1	
	XYN3+C10	SCREW	1	43 inch model
	XYN3+C8	SCREW	1	
	XYN3+F10	SCREW	2	51 inch model
	XYN3+F10	SCREW	1	43 inch model
	XYN3+F12	SCREW	1	
	XYN3+F16	SCREW	4	
	XYN3+F8	SCREW	1	51 inch model

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	XYN3+J8	SCREW	24	51 inch model
	XYN3+J8	SCREW	25	43 inch model
	XYN4+F14	SCREW	12	
	XYN4+J10	SCREW	12	
	XYN4+J8FZ	SCREW	12	
	XYN5+F12	SCREW	12	
	XYN5+F16	SCREW	12	
	XZBT6506	POLY BAG	1	

18. Electrical Replacement Parts List

18.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

Type	Allowance
C : Carbon F : Fuse M : Metal Oxide Metal FIlm S : Solid W : Wire Wound	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance

Type	Allowance
C : Ceramic E : Electrolytic P : Polyester Polyprop lene T : Tantalum	C : ±0.25pF D : ±0.5pF F : ±1pF G : ±3pF J : ±5pF K : ±10pF L : ±15pF M : ±20pF P : +100%, -0% Z : +80%, -20%

18.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	1	**CM NOTHING**	1	(RTL)
■	1	**CM NOTHING**	1	(RTL)
A1-A3	TJSF19916	16P CONNECTOR	3	K1KA16A00119
A4	TJS3A9890	9P CONNECTOR	1	K1KA09A00074
A6	K1KA05A00139	5P CONNECTOR	1	
A7	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
A11	TJSF10035	25P CONNECTOR	1	K1KB35A00001
A15	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A17	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
A21	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
A22	K1KA05A00139	5P CONNECTOR	1	
A23	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
A44	TJSF57570	70P CONNECTOR	1	
A49	K1KA05A00139	5P CONNECTOR	1	
A50	TJSF19916	16P CONNECTOR	1	K1KA16A00119
A51-53	K1KA10A00263	10P CONNECTOR	3	
A54	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
A1001,02	K1KA30A00128	30P CONNECTOR	2	
C005	ECA1HM100	E 10UF, 50V	1	
C006	ECJ2VC1H090D	C 9PF, C, 50V	1	
C008	ECA0JM222	E 2200UF, 6.3V	1	
C010	ECA0JM102	E 1000UF, 6.3V	1	
C014	ECA1HM100	E 10UF, 50V	1	
C015	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
C016,17	ECJ2FB1C474K	C 0.47UF, Z, 16V	2	
C018	ECJ2XC1H220J	C 22UF, J, 50V	1	
C019	ECJ2XC1H331J	C 330PF, J, 50V	1	
C020	ECJ1VC1H121J	C 120PF, J, 50V	1	TX-51P800X/HQ,TX-43P800X/HQ/HZ
C020	ECJ1VC1H181J	C 180PF, J, 50V	1	TX-51P800HM,TX-43P800HM
C022	ECQB1H102JF	P 1000PF, J, 50V	1	
C024	ECA0JM222	E 2200UF, 6.3V	1	
C025	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C026	ECJ1XC1H331J	C 330PF, J, 50V	1	
C060	ECA0JM102	E 1000UF, 6.3V	1	
C068	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C351	ECA2EM100	E 10UF, 250V	1	
C353	ECKD2H103PU	C 0.01UF, P,500V	1	
C356	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C357	ECQB1H104KF	P 0.1UF, K, 50V	1	
C360	ECA1VM470	E 47UF, 35V	1	
C361	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C364	ECA1VM470	E 47UF, 35V	1	
C365	ECA2EM470	E 47UF, 250V	1	
C371	ECA2EM100	E 10UF, 250V	1	
C373	ECKD2H103PU	C 0.01UF, P,500V	1	
C374	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C376	ECKD3D102KBN	C 1000PF, K, 2KV	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C377	ECQB1H104KF	P 0.1UF, K, 50V	1	
C380	ECA1VM470	E 47UF, 35V	1	
C381	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C391	ECA2EM100	E 10UF, 250V	1	
C393	ECKD2H103PU	C 0.01UF, P,500V	1	
C396	ECKD3D102KBN	C 1000PF, K, 2KV	1	
C397	ECQB1H104KF	P 0.1UF, K, 50V	1	
C451	ECA1VM470	E 47UF, 35V	1	
C452,53	ECA1VM471	E 470UF, 35V	2	
C454	ECKF1H271KB	C 270PF, K, 50V	1	
C455	ECEA1CN220U	E 22UF, 16V	1	
C456	ECQB1224KF	P 0.22UF, 100V	1	
C460	ECA1HM100	E 10UF, 50V	1	
C461	ECA1HM102	E 1000UF, 50V	1	
C462	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C464	ECKF1H471KB	C 470PF, K, 50V	1	
C465	ECEA1CN100U	E 10UF, 16V	1	
C502	ECA1VM101	E 100UF, 35V	1	
C503	ECQV1H104JM	P 0.1UF, J, 50V	1	
C504	ECKD2H102KB2	C 1000PF, K,500V	1	
C505	ECA1EM222	E 2200UF, 25V	1	
C511	ECCD3F181KGE	C 270PF, K, 2KV	1	
C512	ECWH20152JVY	P 1500PF, J, 2KV	1	⚠
C513	ECQF6682JZ	P 6800PF, J,630V	1	
C514	ECWH20222JVY	P 2200PF, J, 2KV	1	⚠
C515	ECWF2474JSR	P 0.47UF, J,250V	1	
C516	ECWH20272JVY	P 2700PF, J, 2KV	1	
C517,18	ECKD3D221JBP	C 220 PF, J, 2KV	2	
C519	ECQB1H682JF3	P 6800PF, J, 50V	1	
C520	ECA2EM470	E 47UF, 250V	1	
C521	ECKD2H102KB2	C 1000PF, K,500V	1	
C522	ECA160V33U	E 33UF, 160V	1	
C523	ECA1HM470	E 47UF, 50V	1	
C524	ECQB1224JF	P 0.22UF, J,100V	1	
C525	ECEA1HN220U	E 22UF, 50V	1	
C526	ERDS2TC0	C 0 OHM, 1/4W	1	
C531	ECKD2H101KB	C 100PF, K,500V	1	
C533	ECQF6103JZH	P 0.01UF, J,630V	1	
C540	EXCELSA24	BEAD CHOKE	1	
C701	ECKD3D271KBP	C 270PF, K, 2KV	1	
C702	ECQE2824KF	P 0.82UF, J,250V	1	
C704,05	ECQE1106KF	P 10UF, K,250V	2	
C754	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C802-04	ECKDAE472ZE	C 4700PF, Z,	3	⚠
C805,06	ECQU2A224MN	P 0.22UF, M,250V	2	⚠
C807	ECKDNA102MB	C 1000PF, Z,	1	⚠
C808	ECA1VM221	E 220UF, 35V	1	
C809	ECKDNA102MB	C 1000PF, Z,	1	⚠
C812	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C813	ECKD3D681KBP	C 680PF, K, 2KV	1	
C814	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C815	ECKD3D681KBP	C 680PF, K, 2KV	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C816,17	ECKDNA102MB	C 1000PF, Z,	2	⚠
C819	ECKD2H681KB2	C 680PF, K,500V	1	
C820	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C820	EC0S2GP221BB	E 220UF, 400V	1	TX-51P800HM/HQ,TX-43P800HM/HQ/HZ
C822	EC0S2EP471BB	E 470UF, 250V	1	TX-51P800X,TX-43P800X
C822	EC0S2GP221BB	E 220UF, 400V	1	TX-51P800HM/HQ,TX-43P800HM/HQ/HZ
C823	ECQF4333JZ	P 0.033UF, J,400V	1	
C828	ECQB1H471JF	P 470PF, J, 50V	1	
C829	ECQB1H681JF	P 680PF, J, 50V	1	
C832	ECKD3D152KBP	C 1500PF, K, 2KV	1	
C833	EC0S2CA681BB	E 680UF, 160V	1	
C834	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C835	ECA1CM102	E 1000UF, 16V	1	
C836	EEUFC1A471	E 470UF, 10V	1	
C837	EEUFC1E272	E 2700UF, 25V	1	
C838	ECA1CHG471	E 470UF, 16V	1	
C839	ECKD3A151KBP	C 150PF, K, 1KV	1	
C840	EEUFC1E821	E 820UF, 25V	1	
C841	EEUFC1E272	E 2700UF, 25V	1	
C842	ECKD3A331KBP	C 330PF, K, 1KV	1	
C859	ECA1HM222	E 2200UF, 50V	1	
C860	ECKD2H471KB2	C 470PF, K,500V	1	
C861	ECA1HM102	E 1000UF, 50V	1	
C862	ECA1EM222	E 2200UF, 25V	1	
C863,64	ECKD3A472KBP	C 4700PF, K, 1KV	2	TX-51P800X,TX-43P800X
C865,66	ECA2WHG4R7	E 4.7UF, 450V	2	TX-51P800X,TX-43P800X
C867	ECQB1H473JF	P 0.047UF, J, 50V	1	TX-51P800X,TX-43P800X
C868	ECQE2A473KF	P 0.047UF, K,250V	1	TX-51P800X,TX-43P800X
C869	ECA0JM331	E 330UF, 6.3V	1	
C870	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C871	ECA1EM471	E 470UF, 25V	1	
C872	EEUFC1C471	E 470UF, 16V	1	
C873	ECA1CHG471	E 470UF, 16V	1	
C874	ECKDNA102MB	C 1000PF, Z,	1	⚠
C876	ECKF1H223ZF	C 0.022UF, Z, 50V	1	
C878	ECQU2A224MN	P 0.22UF, M,250V	1	TX-51P800X,TX-43P800X ⚠
C879	ECKD2H561KB2	C 560PF, K,500V	1	
C880	ECA1EM472	E 4700UF, 25V	1	
C881	ECA2EHG100	OR F2A2E1000013	1	
C883	ECA2EHG100	OR F2A2E1000013	1	
C884	ECQV1H104JM	P 0.1UF, J, 50V	1	
C885	ECKF1H101KB	C 100PF, K, 50V	1	
C886	ECCD3D270KGE	C 27PF, K, 2KV	1	
C888	ECKD3A392KBN	C 3900PF, K, 1KV	1	
C889	ECA1CM222	E 2200UF, 16V	1	
C890	ECKD2H102KB2	C 1000PF, K,500V	1	
C891	ECA1CM471	E 470UF, 16V	1	
C893	ECKD3D681KBP	C 680PF, K, 2KV	1	
C894	ECA1VMH470	E 47UF, 35V	1	
C895	ECA1EEN100B	E 10UF 25V	1	
C901	ECEA1CN100U	E 10UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C902	ECA1CM101	E 100UF, 16V	1	
C906	ECA1CM101	E 100UF, 16V	1	
C907	ECCF1H121JC	C 120PF, J, 50V	1	ECCF1H121JC4
C910	ECA1HM100	E 10UF, 50V	1	
C911	ECA1CM101	E 100UF, 16V	1	
C920	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C932	ECA1HM101	E 100UF, 50V	1	
C952	ECA1HM101	E 100UF, 50V	1	
C955	ECQM2103KZ	P 0.01UF, K,200V	1	
C958	ECA2CM100	E 10UF, 160V	1	
C961	ECA2CM100	E 10UF, 160V	1	
C962	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C964	ECA1CM101	E 100UF, 16V	1	
C966	ECA1CM101	E 100UF, 16V	1	
C967	ECA1CM221	E 220UF, 16V	1	
C972	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C973	ECQM2103KZ	P 0.01UF, K,200V	1	
C974	ECA1HM100	E 10UF, 50V	1	
C1001	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C1002	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1004	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1005	ECA1HM100	E 10UF, 50V	1	
C1006	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1007	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1009	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1010,11	ECA1CM101	E 100UF, 16V	2	
C1012,13	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1014	ECJ2XC1H101J	C 100PF, J, 50V	1	
C1015	ECEA1HN100U	E 10UF, 50V	1	
C1016	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1017	ECA1CM471	E 470UF, 16V	1	
C1018	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1019	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1020	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1040	ECQB1H223JF	P 0.022UF, J, 50V	1	
C1041	ECA1HM470	E 47UF, 50V	1	
C1043	ECKF1H101KB	C 100PF, K, 50V	1	
C1051	ECA1CM101	E 100UF, 16V	1	
C1054	ECCF1H101J	C 100PF, J, 50V	1	
C1101	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1102	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1103-10	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C1115	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1119-29	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C1130	EEVHB0G221	E 220UF, 4V	1	
C1131,32	ECJ1XC1H220J	C 22PF, J, 50V	2	
C1133-36	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1137	EEVHB0G221	E 220UF, 4V	1	
C1140	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1142	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1146	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1147	ECA1CM101	E 100UF, 16V	1	
C1148	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1150	ECJ1VF1E104Z	C 0.1UF, Z, 25V	1	
C1153	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1156	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1157,58	ECJ3YB0J335K	C 33UF, J, 25V	2	
C1159,60	EEVHB1C100	E 10UF, 16V	2	
C1161	EEVHB0G221	E 220UF, 4V	1	
C1162	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1163	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1164	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1165	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C1166	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1167	EEVHB1C101P	E 100UF, 16V	1	
C1168	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1300	EEVHB0G221	E 220UF, 4V	1	
C1301	EEVHB0G101	E 100UF 4V	1	
C1302	EEVHB0J470	E 47UF, 6.3V	1	
C1303	EEVHB1C470	E 47UF, 16V	1	
C1304	EEVHB0J470	E 47UF, 6.3V	1	
C1305	EEFUD0J101R	100UF	1	
C1308	EEVHB1C470	E 47UF, 16V	1	
C1309-12	EEVHB0J470	E 47UF, 6.3V	4	
C1317	EEVHB0G101	E 100UF 4V	1	
C1318,19	EEVHB1C470	E 47UF, 16V	2	
C1320	EEVHB0G101	E 100UF 4V	1	
C1324,25	EEVHB1C100	E 10UF, 16V	2	
C1329	EEVHB1H1R0	E 1UF, 50V	1	
C1331	EEVHB0J470	E 47UF, 6.3V	1	
C1332,33	EEVHB0G101	E 100UF 4V	2	
C1334	EEVHB0G221	E 220UF, 4V	1	
C1338	EEVHB0G101	E 100UF 4V	1	
C1339	EEVHB0G221	E 220UF, 4V	1	
C1340,41	EEVHB1C100	E 10UF, 16V	2	
C1342-44	EEVHB0G101	E 100UF 4V	3	
C1345	EEVHB0G221	E 220UF, 4V	1	
C1347	EEVHB0G101	E 100UF 4V	1	
C1348	EEVHB0J470	E 47UF, 6.3V	1	
C1350	EEVHB0G101	E 100UF 4V	1	
C1351	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1352,53	EEVHB0G221	E 220UF, 4V	2	
C1354	EEVHB0J470	E 47UF, 6.3V	1	
C1355	EEVHB0G101	E 100UF 4V	1	
C1356	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1357	EEVHB0G101	E 100UF 4V	1	
C1358,59	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1360	EEVHB1C100	E 10UF, 16V	1	
C1361	EEVHB0G101	E 100UF 4V	1	
C1366,67	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1368	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C1369-72	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C1373,74	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C1376	ECJ2XB1H272K	C 2700PF, K, 50V	1	
C1377,78	EEVHB0G101	E 100UF 4V	2	
C1380	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1381-84	ECJ1VF1A105Z	C 1UF, Z, 10V	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1385	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1386	EEVHB0J470	E 47UF, 6.3V	1	
C1387	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1388	EEVHB0G101	E 100UF 4V	1	
C1389	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1390	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1397	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C1402,03	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1404,05	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1408,09	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1416	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1417	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1418	ECJ1XC1H680J	C 68PF, J, 50V	1	
C1419,20	ECJ1XC1H100D	C 10PF, D, 50V	2	
C1421,22	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1424	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1425	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1426	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1427	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1428	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1429,30	ECJ1XC1H180J	C 18PF, J, 50V	2	
C1431,32	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1433,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1437	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1438-40	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1441	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1442	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1444-49	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1452,53	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1456,57	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1464	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1466	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1467	ECJ1XC1H820J	C 82PF, J, 50V	1	
C1468	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1471	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1476,77	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1478	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C1479	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1482-85	ECJ1VF1A105Z	C 1UF, Z, 10V	4	
C1486	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C1489	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1496	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1498	EEVHB0J470	E 47UF, 6.3V	1	
C1499,00	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1501	ECJ1XC1H150J	C 15PF, J, 50V	1	
C1502	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1505	ECJ1XC1H180J	C 18PF, J, 50V	1	
C1506	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1509	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1510	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1511	ECJ1XB0J105K	C 1UF, K, 16V	1	
C1512	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1514-23	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C1525-27	ECJ1VF1A105Z	C 1UF, Z, 10V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1528,29	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1530	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1531	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1533,34	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1535	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1536	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1537,38	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1539,40	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C1541	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1542	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1543	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1545	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1546,47	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1549-53	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C1554	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1555-57	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1558	ECJ1XC1H221J	C 220PF, J, 50V	1	
C1559	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1561-63	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1565-70	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1572-74	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1579	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1581	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1587	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1589	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1590,91	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1592	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1593,94	ECJ1XC1H330J	C 33PF, J, 50V	2	
C1595	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1597	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1598,99	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C1601	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1603	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1606	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1607	ECJ1XC1H471J	C 470PF, J, 50V	1	
C1609	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1610	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1612,13	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1614	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1616	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1618-23	ECJ1VF1A105Z	C 1UF, Z, 10V	6	
C1625	ECJ1XC1H330J	C 33PF, J, 50V	1	
C1626	EEVHB1H1R0	E 1UF, 50V	1	
C1627	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1628-30	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1631	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1632,33	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1634,35	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C1636-40	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C1641	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1642-51	ECJ1VF1A105Z	C 1UF, Z, 10V	10	
C1652	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1653	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1654	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1655	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1656	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1657	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1658	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1659	EEVHB1H1R0	E 1UF, 50V	1	
C1660-74	ECJ1VF1A105Z	C 1UF, Z, 10V	15	
C1675	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1676	EEVHB0G221	E 220UF, 4V	1	
C1677-79	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1680	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1681	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1682	EEVHB0G101	E 100UF 4V	1	
C1684	ECJ1XC1H101J	C 100PF, J, 50V	1	
C1691-00	ECJ1VF1H103Z	C 0.01UF, Z, 50V	10	
C1705-11	ECJ1VF1H103Z	C 0.01UF, Z, 50V	7	
C1712	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C1713	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1717-19	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C1728	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1729	EEVHP1C100R	E 10UF, 16V	1	
C1735	EEVHP1C100R	E 10UF, 16V	1	
C1737	EEVHP1C100R	E 10UF, 16V	1	
C1739	EEVHP1C100R	E 10UF, 16V	1	
C1741	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C1742	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C1743	EEVHP1C100R	E 10UF, 16V	1	
C1744	EEVHB1C470	E 47UF, 16V	1	
C1747	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1749	ECJ1VB1H681K	C 680PF, K, 50V	1	
C1790	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1807-14	ECJ1VF1H103Z	C 0.01UF, Z, 50V	8	
C1815	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C1816	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1817-20	ECJ1VF1H103Z	C 0.01UF, Z, 50V	4	
C1821	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C1823,24	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C1825-28	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C1867,68	EEVHB0G101	E 100UF 4V	2	
C1869	EEVHB0J470	E 47UF, 6.3V	1	
C1870,71	EEVHB1C100	E 10UF, 16V	2	
C1872,73	EEVHB0G101	E 100UF 4V	2	
C1874,75	EEFCD0G560R	56UF,	2	
C1935	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1937	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1938-41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C1942,43	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1944-47	ECJ1XB0J105K	C 1UF, K, 16V	4	
C1949,50	ECJ1XC1H680J	C 68PF, J, 50V	2	
C1951	EEVHB1A330	E 33UF, 10V	1	
C1954	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1956	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1958	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1959	EEVHB1C470	E 47UF, 16V	1	
C1960,61	ECJ1XC1H330J	C 33PF, J, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1964	ECJ1XC1H470J	C 47PF, J, 50V	1	
C1965	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1968-71	ECJ1XB0J105K	C 1UF, K, 16V	4	
C1972	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1975	ECJ1XC1H390J	C 39PF, J, 50V	1	
C1976	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1979-81	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C1982	ECJ1XC1H080D	C 8PF, D, 50V	1	
C1983	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1984,85	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1986,87	ECJ1XC1H101J	C 100PF, J, 50V	2	
C1990	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C1991,92	ECJ1XB0J105K	C 1UF, K, 16V	2	
C1994	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C2001-04	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C2007,08	ECEA1HN100U	E 10UF, 50V	2	
C2010	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2011	ECA1CM471	E 470UF, 16V	1	
C2012	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2016	ECA1HM100	E 10UF, 50V	1	
C2017	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2018	ECA1HM100	E 10UF, 50V	1	
C2019	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2021	ECA1HM3R3	E 3.3UF, 50V	1	
C2022,23	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2024	ECA1HM100	E 10UF, 50V	1	
C2025	ECA1HMR47	E 0.47UF, 50V	1	
C2027	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2029,30	ECJ2XC1H030C	C 3PF, C, 50V	2	
C2031,32	ECA1CM101	E 100UF, 16V	2	
C2033	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2034	ECA1CM101	E 100UF, 16V	1	
C2035	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2036	ECJ2XC1H470J	C 47PF, J, 50V	1	
C2037	ECJ2XC1H070D	C 7PF, D, 50V	1	
C2038,39	ECJ2XC1H560J	C 56PF, J, 50V	2	
C2043	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2045	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
C2046	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2047	ECA1CM221	E 220UF, 16V	1	
C2049	ECA1CM221	E 220UF, 16V	1	
C2050	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2055	ECA1HM220	E 22UF, 50V	1	
C2057	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2304	ECA1HHG100	E 10UF, 50V	1	
C2305-07	ECA1VM101	E 100UF, 35V	3	
C2308	ECA1HM100	E 10UF, 50V	1	
C2309,10	ECA1VM102	E 1000UF, 35V	2	
C2312	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2313,14	ECQB1H272JF	P 2700PF, J, 50V	2	
C2315	ECA1HM102	E 1000UF, 50V	1	
C2316	ECQV1H104JM	P 0.1UF, J, 50V	1	
C2318	ECA1HHG220	E 22UF, 50V	1	
C2333	ECA50YT47KB	E 47UF, 50V	1	43 inch models

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2335	ECA50YT47KB	E 47UF, 50V	1	43 inch models
C2336	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2341	ECA1HM220	E 22UF, 50V	1	
C2352	ECEA1HN2R2U	E 2.2UF, 50V	1	
C2363	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2365	ECA1CM471	E 470UF, 16V	1	
C2366	ECEA1HN4R7U	E 4.7UF, 50V	1	
C2367	ECJ2XC1H471J	C 470PF, J, 50V	1	
C2368	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2370	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2371	ECA0JM222	E 2200UF, 6.3V	1	
C2372	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2373,74	ECEA1HNR33U	E 0.33UF, 50V	2	
C2376	ECA1CM221	E 220UF, 16V	1	
C2378	ECA1CM101	E 100UF, 16V	1	
C2380	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2394	ECJ2XC1H471J	C 470PF, J, 50V	1	
C2396	ECA1VM470	E 47UF, 35V	1	
C2397	ECA1CM221	E 220UF, 16V	1	
C2398	ECA1CM101	E 100UF, 16V	1	
C2399	ECA1HM100	E 10UF, 50V	1	
C2400	ECA1CM471	E 470UF, 16V	1	
C2701	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2702	ECA0JM222	E 2200UF, 6.3V	1	
C2703	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2704	ECA1CM471	E 470UF, 16V	1	
C2705	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2706	ECA0JM222	E 2200UF, 6.3V	1	
C2707,08	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2709	ECA1CM471	E 470UF, 16V	1	
C2710	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2711	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2712	ECA1CM471	E 470UF, 16V	1	
C2713	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2714	ECA1VM471	E 470UF, 35V	1	
C2715	ECA1CM101	E 100UF, 16V	1	
C2716	ECA1CM471	E 470UF, 16V	1	
C3001,02	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3003-05	ECEA1HN100U	E 10UF, 50V	3	
C3006-11	ECJ2VF1C104Z	C 0.1UF, Z, 16V	6	
C3012	ECA1CM471	E 470UF, 16V	1	
C3013	ECJ3YB0J335K	C 33UF, J, 25V	1	
C3014	ECA1CM101	E 100UF, 16V	1	
C3015	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3017	ECEA1CN101U	E 100UF, 16V	1	
C3018	ECA1CM471	E 470UF, 16V	1	
C3019	ECA1VM470	E 47UF, 35V	1	
C3020-22	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C3023	ECA1CM101	E 100UF, 16V	1	
C3024-26	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3027-30	ECA1HM100	E 10UF, 50V	4	
C3031	ECA1CM101	E 100UF, 16V	1	
C3032,33	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3035-37	ECJ2VF1C105Z	C 1UF, Z, 16V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3038	ECEA1CN101U	E 100UF, 16V	1	
C3039,40	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3041	ECA1VM470	E 47UF, 35V	1	
C3042	ECA1CM471	E 470UF, 16V	1	
C3045-51	ECJ2VF1C105Z	C 1UF, Z, 16V	7	
C3053-61	ECJ2VF1C105Z	C 1UF, Z, 16V	9	
C3062,63	ECJ2XC1H561J	C 560PF, J, 50V	2	
C3064	ECA1CM471	E 470UF, 16V	1	
C3067-72	ECJ2XC1H561J	C 560PF, J, 50V	6	
C3073	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3075	ECEA1CN101U	E 100UF, 16V	1	
C3086,87	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3088	ECA1VM470	E 47UF, 35V	1	
C3089	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3094	ECJ3YB0J335K	C 33UF, J, 25V	1	
C3112,13	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C3352	ECA2AM220	E 22UF, 100V	1	
C3353	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3362	ECA2AM220	E 22UF, 100V	1	
C3363	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3372	ECA2AM220	E 22UF, 100V	1	
C3373	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C3430	ECA1HM100	E 10UF, 50V	1	
C6715	ECKD3D681KBP	C 680PF, K, 2KV	1	
C6718	ECCD3D220KGE	C 22PF, K, 2KV	1	
C6729,30	ECKDNA471MB	C 470PF, Z,	2	⚠
C6731,32	ECKD3D681KBP	C 680PF, K, 2KV	2	
C7002,03	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C7004,05	ECA1VHG101	E 100UF, 35V	2	
C7006	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7007	ECCF1H220JC	C 22PF, J, 50V	1	
C7008	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7009	ECCF1H220JC	C 22PF, J, 50V	1	
C7010	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7011	ECCF1H220JC	C 22PF, J, 50V	1	
C7013,14	ECA1VHG101	E 100UF, 35V	2	
C7015,16	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C7017	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7018	ECCF1H220JC	C 22PF, J, 50V	1	
C7019	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7020	ECCF1H220JC	C 22PF, J, 50V	1	
C7021	ECKR1H681KB5	C 680PF, K, 50V	1	F1B1H681A005
C7022	ECCF1H220JC	C 22PF, J, 50V	1	
C7023	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C7090-95	ECKF1H102KB	C 1000PF, K, 50V	6	
C7101	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7102	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7104	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7105-07	ECJ2XC1H101J	C 100PF, J, 50V	3	
C7108-11	EEVHB0J470	E 47UF, 6.3V	4	
C7112,13	ECJ2XC1H561J	C 560PF, J, 50V	2	
C7114	ECJ2VC1H821J	C 820PF, J, 50V	1	
C7115,16	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7117	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

[illegible]	[illegible]	[illegible]	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7118	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7119	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7120	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7121,22	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7123-25	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C7126-28	EEVHB0J470	E 47UF, 6.3V	3	
C7129,30	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7131-34	ECJ2XC1H561J	C 560PF, J, 50V	4	
C7135	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7136	EEVHB1C470	E 47UF, 16V	1	
C7137-40	ECJ2XC1H101J	C 100PF, J, 50V	4	
C7141	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7142	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7143	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7145-48	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C7149	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7151	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7152	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7154	EEVHB1C470	E 47UF, 16V	1	
C7155-57	ECJ3YB0J475K	C 47UF, J, 25V	3	
C7158-61	ECJ2XC1H681J	C 680PF, J, 50V	4	
C7162	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7163,64	ECJ2XC1H681J	C 680PF, J, 50V	2	
C7166	ECJ2XC1H681J	C 680PF, J, 50V	1	
C7167	ECJ3YB0J475K	C 47UF, J, 25V	1	
C7168	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7169,70	ECJ3YB0J475K	C 47UF, J, 25V	2	
C7171,72	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C7173	ECJ2XB1H823K	C 0.082UF, K, 50V	1	
C7174	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7175	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7176	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7178,79	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C7180	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7181	EEVHB0G101	E 100UF 4V	1	
C7182	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7183	EEVHB1C470	E 47UF, 16V	1	
C7184	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7185-96	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	
C7197	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7301-04	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7305	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C7306	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7307	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7308	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7309	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7310	ECJ2XC1H560J	C 56PF, J, 50V	1	
C7311	ECA1CM101	E 100UF, 16V	1	
C7314	ECA1CM101	E 100UF, 16V	1	
C7315	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7316	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C7317	ECJ2XC1H221J	C 220PF, J, 50V	1	
C7709	ECJ2XC1H181J	C 180PF, J, 50V	1	
C7710,11	ECJ2XC1H271J	C 270PF, J, 50V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7712	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7713	ECA1EM471	E 470UF, 25V	1	
C7714	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7715	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7716	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7717	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C7718	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C7719-21	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7725	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C7726	ECA1EM471	E 470UF, 25V	1	
C9601	ECA1VMH470	E 47UF, 35V	1	
C9602	ECKF1H101KB	C 100PF, K, 50V	1	
C9603	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C9604	ECA1HM220	E 22UF, 50V	1	
C9611	ECWH16473JV	P 0.047PF,J,1.6KV	1	
C9612	ECA1CM101	E 100UF, 16V	1	
C9613	ECEA1EN101U	E 100UF, 25V	1	
C9614	ECKF1H471KB	C 470PF, K, 50V	1	
C9615	ECQB1H223JF	P 0.022UF, J, 50V	1	
D001	MA3150H	ZENER DIODE	1	MAZ31500H
D1	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D002	MA3150H	ZENER DIODE	1	MAZ31500H
D2,D3	TJSF20016	16P CONNECTOR	2	K1KB16A00050
D4	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
D5	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
D6	TJSF20016	16P CONNECTOR	1	K1KB16A00050
D8	K1KA06A00180	6P CONNECTOR	1	
D012	MA3056M	ZENER DIODE	1	MAZ30560M
D12	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
D013	MA3056M	ZENER DIODE	1	MAZ30560M
D13-15	TJS3A9650	4P CONNECTOR	3	K1KA04A00194
D21-25	TJS5A9420	8P CONNECTOR	5	K1KB08A00054
D353,54	MA165	DIODE	2	MA2C165
D357	MA165	DIODE	1	MA2C165
D360-63	MA188	DIODE	4	MA2C188
D366	AM01Z	DIODE	1	B0EAKC000002
D367-70	MA188	DIODE	4	MA2C188
D373,74	MA165	DIODE	2	MA2C165
D377	MA165	DIODE	1	MA2C165
D387-90	MA188	DIODE	4	MA2C188
D393,94	MA165	DIODE	2	MA2C165
D397	MA165	DIODE	1	MA2C165
D452	MA165	DIODE	1	MA2C165
D453	EU02	DIODE	1	
D454,55	MA165	DIODE	2	MA2C165
D456	TVSA81004	DIODE	1	B0JAME000009
D457-60	AM01Z	DIODE	4	B0EAKC000002
D461	MA4030H	ZENER DIODE	1	MAZ40300H ⚠
D462	MA723TA	DIODE	1	MA2C72300F
D500,01	D1NL40V70	DIODE	2	B0HALP000002 ⚠
D502	MA4150M	ZENER DIODE	1	MAZ41500M
D503	B0KZ00000001	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D504	MA4270M	ZENER DIODE	1	MAZ42700M
D505	MA4030M	ZENER DIODE	1	MAZ40300M
D508,09	MA165	DIODE	2	MA2C165
D510,11	D1NL40V70	DIODE	2	B0HALP000002 ⚠
D514	MA4068L	ZENER DIODE	1	MAZ40680L
D519	AU02Z	DIODE	1	B0HAKM000004
D530	MA165	DIODE	1	MA2C165
D551	EU02	DIODE	1	
D701	D1NL40V70	DIODE	1	B0HALP000002 ⚠
D702	MA4120M	ZENER DIODE	1	MAZ41200M
D801	D4SB80Z	DIODE	1	B0EBNT000004 ⚠
D805	MA2240B	ZENER DIODE	1	MAZ22400B
D807	B3PAA0000153	DIODE	1	⚠
D809	MA2082-A	ZENER DIODE	1	MAZ20820A
D811	MA2082-A	ZENER DIODE	1	MAZ20820A
D813	ERDS2TC0	C 0 OHM, 1/4W	1	
D815	MA4220M	ZENER DIODE	1	MAZ42200M
D816	MA165	DIODE	1	MA2C165
D819-21	ERA22-04	DIODE	3	B0HAGP000001
D822	B0EAKT000023	DIODE	1	TX-51P800X,TX-43P800X
D823	B0EAKT000023	DIODE	1	TX-51P800X,TX-43P800X
D828,29	FML-12S	DIODE	2	
D831	FMGG2CS	DIODE	1	B0HAPV000011
D832	RK34	DIODE	1	B0JANE000006
D851	FML22S	DIODE	1	B0HFRJ000011
D860	FMGG26S	DIODE	1	B0HANR000014
D869,70	MA165	DIODE	2	MA2C165
D871	ERA22-02	DIODE	1	B0HAGM000001
D872	RK34	DIODE	1	B0JANE000006
D875,76	ERZV14D511	VARISTOR	2	
D884	B3PAA0000153	DIODE	1	⚠
D885	MA4056H	ZENER DIODE	1	MAZ40560H
D886	MA165	DIODE	1	MA2C165
D890	EU02	DIODE	1	
D893	ERC13-08	DIODE	1	B0EAKT000022
D894	MA165	DIODE	1	MA2C165
D953	R2KN1	DIODE	1	
D962	MA188	DIODE	1	MA2C188
D1001,02	MA152K	DIODE	2	MA3X152K
D1011	LNG201RFC	DIODE	1	
D1015	B3AEA0000029	DIODE	1	
D1104	MA152K	DIODE	1	MA3X152K
D1300-04	MA152K	DIODE	5	MA3X152K
D1306	MA152K	DIODE	1	MA3X152K
D1307	MA704A	DIODE	1	MA3X704A
D2002	MA3033L	ZENER DIODE	1	MAZ30330L
D2303,04	MA152K	DIODE	2	MA3X152K
D2305	B0BA5R600016	DIODE	1	
D2306	MA152K	DIODE	1	MA3X152K
D2308	MA152K	DIODE	1	MA3X152K
D2310	MA3360M	ZENER DIODE	1	MAZ33600M
D2312	MA3360M	ZENER DIODE	1	MAZ33600M

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2315	MA152K	DIODE	1	MA3X152K
D3003	MA3091L	ZENER DIODE	1	
D3004	MA3110L	ZENER DIODE	1	
D3205,06	MA165	DIODE	2	MA2C165
D3351,52	MA165	DIODE	2	MA2C165
D3361,62	MA165	DIODE	2	MA2C165
D3371,72	MA165	DIODE	2	MA2C165
D3410	MA165	DIODE	1	MA2C165
D6705	EG01C	DIODE	1	B0HAGV000001
D6710	MA2082-A	ZENER DIODE	1	MAZ20820A
D6712	ERC13-08	DIODE	1	B0EAKT000022
D6717,18	ERC13-08	DIODE	2	B0EAKT000022
D7101	MA157A	DIODE	1	MA3X157A
D7707	MA152	DIODE	1	
D7708	MA152K	DIODE	1	MA3X152K
D7709	MA152	DIODE	1	
D7710,11	MA4150H	ZENER DIODE	2	MAZ41500H
D9350,51	MA3051M	ZENER DIODE	2	MAZ30510M
D9601	MA4075H	ZENER DIODE	1	MAZ40750H
D9602	RP1H	DIODE	1	B0HACW000001
D9603,04	MA4030H	ZENER DIODE	2	MAZ40300H ⚠
D9605	MA29B	DIODE	1	
D9606	MA165	DIODE	1	MA2C165
D9607	MA4062L	ZENER DIODE	1	MAZ40620L
DC1-C3	K1KB10B00042	10P CONNECTOR	3	
DL1301-06	ELKE103FA	NOISE FILTER	6	
DL1308,09	TLK20LFA223M	EMI FILTER	2	J0HABB000003
DL1310	TLK20LFA103M	EMI FILTER	1	J0HABB000009
DL1318	TLK20LFA103M	EMI FILTER	1	J0HABB000009
DL1323,24	TLK20LFA223M	EMI FILTER	2	J0HABB000003
DL1326-31	TLK20LFA223M	EMI FILTER	6	J0HABB000003
DL1333	TLK20LFA223M	EMI FILTER	1	J0HABB000003
DL1334	TLK20LFA103M	EMI FILTER	1	J0HABB000009
DL1337,38	TLK20LFA103M	EMI FILTER	2	J0HABB000009
DL1339-41	TLK20LFA224M	EMI FILTER	3	J0HABB000004
DL1343-45	TLK20LFA224M	EMI FILTER	3	J0HABB000004
DL1349	TLK20LFA224M	EMI FILTER	1	J0HABB000004
F801	XBA2C50TR0	FUSE 250V 5A	1	K5D502BK0003 ⚠
F801-1,-2	EYF-52BC	FUSE HOLDER	2	
G1	TJS1A8180	12P CONNECTOR	1	K1KA12B00041
G2	TJS1A8110	TELEPHON JACK (5P)	1	K1KA05B00047
G3	TJS1A8080	2P CONNECTOR	1	K1KA02B00044
H1	TJSF25135	35P CONNECTOR	1	K1KA35B00002
H2	TJS1A8160	PHONO PIN (10P)	1	K1KA10B00066
H5	TJS1A8090	PHONO PIN (3P)	1	K1KA03B00045
IC451	LA78045	LINEAR IC	1	C1AA00000521
IC751	AN6914	LINEAR IC *	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC801	STRF6656LF53	LINEAR IC	1	C5HABZZ00014
IC802	STR83145LF55	LINEAR IC	1	TX-51P800X,TX-43P800X
IC808	SE139N	LINEAR IC *	1	
IC810	PQ1CG21H2RZ	INTEGRATED CIRCUIT	1	C0DACMG00001
IC831	C0DAAZH00009	PQ1CG3032RZ	1	
IC881	MIP0254SPSCF	INTEGRATED CIRCUIT	1	
IC1001	S-80843ALY-Z	LINEAR IC *	1	C0EAH0000067
IC1002	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1004	M62392FP	IC	1	C0FBBD000083
IC1005	C0CACBF00001	IC	1	
IC1006	C0CACAG00001	IC	1	
IC1101	C2CBYF000028	IC	1	
IC1102	TVRJ935	IC	1	C3FBMD000050
IC1103	C0JBAB000591	IC	1	
IC1104	TVRJ934	IC	1	C3EBHC000020
IC1106	C3ABPG000102	IC	1	
IC1107	C0JBAZ001839	IC	1	
IC1108	C0JBAE000231	IC	1	
IC1109	AN78L05	LINEAR IC	1	
IC1301	C1AB00001826	IC	1	
IC1302	C1AB00001703	IC	1	
IC1304	C1AB00001707	IC	1	
IC1305	M52055FP	LINEAR IC	1	C1AB00000734
IC1306	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1308	C3ABPJ000017	IC	1	
IC1309	AN15935A	IC	1	
IC1311	C0CBCAD00006	IC	1	
IC1312	NJM2904M	LINEAR IC	1	C0ABBA000021
IC1313	TC7WU04FU	IC	1	C0JBAB000339
IC1315	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC1319	C0CBCAD00006	IC	1	
IC1320	C0JBAM000095	IC	1	
IC1321	C3ABPJ000048	IC	1	
IC1322	C0CBCAD00006	IC	1	
IC1324	C0CBCAD00006	IC	1	
IC1331	C3ABPJ000048	IC	1	
IC1332,33	C0CBCBD00006	IC	2	
IC1334	C0CBCBD00005	IC	1	
IC1337	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC1341,42	C0DBEZG00004	IC	2	
IC1350	C1AB00001827	IC	1	
IC1351	C0CBCAD00006	IC	1	
IC1855,56	TC7S66F	MOS IC (CMOS LOGIC) *	2	
IC1857	C0FBAF000040	IC	1	
IC1858	C0CBCBD00006	IC	1	
IC2001	AN78L08	LINEAR IC *	1	
IC2002	C1AB00001871	IC	1	51 inch models
IC2002	C1AB00001755	IC	1	43 inch models
IC2003	AN78M05	LINEAR IC	1	
IC2301	C1AA00000664	IC	1	
IC2305	AN7108	LINEAR IC	1	
IC2702	C0CACAG00001	IC	1	
IC2703	AN7705F	LINEAR IC	1	
IC2704	AN78M09	LINEAR IC *	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3001	M52055FP	LINEAR IC	1	C1AB00000734
IC3002	AN78L09	LINEAR IC *	1	
IC3003	CXA2069Q	LINEAR IC	1	C1AB00000459
IC3004,05	C0ZBZ0000451	IC	2	
IC7001,02	C5AA00000196	IC	2	
IC7101	AN78L05M	LINEAR IC	1	
IC7102	C0CBCBD00006	IC	1	
IC7103	C0JBAB000003	IC	1	
IC7104	C0FBBH000047	IC	1	
IC7105,06	TL084CNS	IC	2	C0AAFB000011
IC7107	C1AB00001812	IC	1	
IC7108	AN78L12M	LINEAR IC *	1	
IC7109	AN79L12M	IC	1	
IC7110	CXA1875AM	LINEAR IC	1	C0FBBD000017
IC7301	TVRJ936	IC	1	C3EBJC000037
IC7302	BA7603F	IC	1	
IC7702	CXA1315M	LINEAR IC	1	C1AB00000440
IC7703	AN6912S	IC	1	
IC9601	AN6562	LINEAR IC *	1	
JK351	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK371	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK391	TJSC00700	CRT SOCKET	1	K3B10CA00006 ⚠
JK801	TJC6137	EARTH LUG	1	
JK3201	TJB4G637	TERMNAL	1	
JK3401	TJB0A639	TERMINAL	1	
JS12	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS17	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7102,03	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS7106	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS7108	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSA3	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSA4	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSA21	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSA23	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSA28-30	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JSDG007	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG011-13	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
JSDG014-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JSDG019-22	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JSDG035	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG042	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG046-48	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JSDG051,52	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JSDG058	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JSDG064	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG068-94	ERJ3GEY0R00	M 0 OHM, 1/16W	27	
JSDG096-03	ERJ3GEY0R00	M 0 OHM, 1/16W	8	
JSDG110	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JSDG117	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JSDG122-24	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JSU6	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
K1	TJS169690	4P CONNECTOR	1	K1KA04A00005
K2	K1KA05A00139	5P CONNECTOR	1	
KA1	TJS1A8080	2P CONNECTOR	1	K1KA02B00044
L003	EXCELDR35C	BEAD CHOKE	1	
L005	EXCELDR35C	BEAD CHOKE	1	
L006	ELJNC15NJF	CHIP COIL	1	
L007,08	ELJNC39NKB	CHIP COIL	2	
L009,10	EXCELDR35C	BEAD CHOKE	2	
L351	ELEBD101KA	PEAKING COIL	1	
L352	ELESE100JA	PEAKING COIL	1	
L353	ELESE1R0JA	PEAKING COIL	1	
L354	ELESN6R8JA	PEAKING COIL	1	
L371	ELEBD101KA	PEAKING COIL	1	
L372	ELESE100JA	PEAKING COIL	1	
L373	ELESE4R7KA	PEAKING COIL	1	
L374	ELESN6R8JA	PEAKING COIL	1	
L391	ELEBD101KA	PEAKING COIL	1	
L392	ELESE150JA	PEAKING COIL	1	
L393	ELESN6R8JA	PEAKING COIL	1	
L394	ELESE100JA	PEAKING COIL	1	
L452,53	EXCELDR35C	BEAD CHOKE	2	
L503	EXCELSA35	BEAD CHOKE	1	
L505	EXCELSA24	BEAD CHOKE	1	
L506,07	EXCELDR25C	BEAD CHOKE	2	
L508	EXCELSA24	BEAD CHOKE	1	
L531	EXCELDR35C	BEAD CHOKE	1	
L555	ELH5L718	HORIZONTAL COIL	1	
L701	TALFP15B222K	INDUCTION COIL	1	G0A222DA0017
L702	ELC18B151G	CHOKE COIL	1	
L703	EXCELSA35	BEAD CHOKE	1	
L741	ELEIE101KA	CHOKE COIL	1	ELEKE101KA
L815,16	EXCELSA39	BEAD CHOKE	2	
L818	EXCELSA35	BEAD CHOKE	1	
L820	EXCELSA24	BEAD CHOKE	1	
L822	EXCELDR35C	BEAD CHOKE	1	
L827,28	TALL08N220KA	INDUCTION COIL	2	G0C220K00013
L830	EXCELSA35	BEAD CHOKE	1	
L839	EXCELDR35C	BEAD CHOKE	1	
L841	TALFP15B560K	CHOKE COIL	1	G0A560GA0001
L843-45	EXCELDR35C	BEAD CHOKE	3	
L851	EXCELSA35	BEAD CHOKE	1	
L857	EXCELSA35	BEAD CHOKE	1	
L861	TLUADTB470K	INDUCTION COIL	1	G0A470GA0017
L862	G0A101GA0017	CHOKE COIL	1	
L865	EXCELSA35	BEAD CHOKE	1	
L870	ELF24V030A	LINE FILTER	1	TX-51P800X,TX-43P800X ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L870	ELF24V018A	LINE FILTER	1	TX-51P800HM/HQ,TX-43P800HM/HQ/HZ ⚠
L872	ELF24V030A	LINE FILTER	1	TX-51P800X,TX-43P800X ⚠
L872	ELF24V019A	LINE FILTER	1	TX-51P800HM/HQ,TX-43P800HM/HQ/HZ ⚠
L873	ELF24V032B	LINE FILTER	1	TX-51P800X,TX-43P800X ⚠
L873	ELF24V018A	LINE FILTER	1	TX-51P800HM/HQ,TX-43P800HM/HQ/HZ ⚠
L874	EXCELSA35	BEAD CHOKE	1	
L875	TALFP15B221K	INDUCTION COIL	1	G0A221GA0001
L876	TALL08N330KA	INDUCTION COIL	1	G0A330GA0011
L877	EXCELDR35C	BEAD CHOKE	1	
L879	EXCELDR35C	BEAD CHOKE	1	
L880	EXCELSA35	BEAD CHOKE	1	
L883	TALL08N181KA	CHIP INDUCTOR COIL	1	G0A181EA0008
L884-88	EXCELDR35C	BEAD CHOKE	5	
L891-93	G0A150HA0015	PEAKING COIL	3	
L904	TLUABTA560K	PEAKING COIL	1	G0C560K00004
L951	EXCELSA35	BEAD CHOKE	1	
L953,54	EXCELSA35	BEAD CHOKE	2	
L956	EXCELSA35	BEAD CHOKE	1	
L1052	EXCELSA35	BEAD CHOKE	1	
L1103,04	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1C4R7MA0063
L1107-10	TALC325T4R7M	CHIP INDUCTOR COIL	4	G1C4R7MA0063
L1115	TALC325T3R3M	CHIP INDUCTOR COIL	1	G1C3R3MA0063
L1116	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1309-16	TALC325T4R7M	CHIP INDUCTOR COIL	8	G1C4R7MA0063
L1317,18	TALC168T3R3K	CHIP INDUCTOR COIL	2	G1C3R3K00007
L1319,20	TALC168T6R8K	CHIP INDUCTOR COIL	2	G1C6R8K00005
L1323,24	TALC325T4R7M	CHIP INDUCTOR COIL	2	G1C4R7MA0063
L1327	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1328	G1C100KA0008	INDUCTOR COIL	1	
L1329	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1330	G1C100KA0008	INDUCTOR COIL	1	
L1331	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1333-42	TALC325T4R7M	CHIP INDUCTOR COIL	10	G1C4R7MA0063
L1343	G1C100KA0008	INDUCTOR COIL	1	
L1350	J0JGC0000021	CHIP INDUCTOR COIL	1	
L1352	G1C100KA0008	INDUCTOR COIL	1	
L1353	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1360-63	J0JGC0000021	CHIP INDUCTOR COIL	4	
L1364,65	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
L1366,67	J0JGC0000021	CHIP INDUCTOR COIL	2	
L1650-52	J0JGC0000021	CHIP INDUCTOR COIL	3	
L1653	G1C100KA0008	INDUCTOR COIL	1	
L1654	TALC325T4R7M	CHIP INDUCTOR COIL	1	G1C4R7MA0063
L1655	G1C100KA0008	INDUCTOR COIL	1	
L1801,02	G1C100KA0008	INDUCTOR COIL	2	
L1804-06	G1C100KA0008	INDUCTOR COIL	3	
L1852	TALC168T2R2K	CHIP INDUCTOR COIL	1	G1C2R2K00006
L1853,54	TALC168T100K	CHIP INDUCTOR COIL	2	G1C100KA0009
L1857	TALC168T5R6K	CHIP INDUCTOR COIL	1	G1C5R6K00007
L1858	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L1859-61	TALC168T1R0K	CHIP INDUCTOR COIL	3	G1C1R0K00005
L1862,63	TALC168T5R6K	CHIP INDUCTOR COIL	2	G1C5R6K00007
L1864-66	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
L2001,02	ELESE4R7KA	PEAKING COIL	2	
L2003	EXCELDR35C	BEAD CHOKE	1	
L2004	EXCELSA39	BEAD CHOKE	1	
L2005	ELESN560KA	PEAKING COIL	1	
L2006	ELESE6R8KA	PEAKING COIL	1	
L2013	EXCELDR35C	BEAD CHOKE	1	
L2017-21	EXCELSA35	BEAD CHOKE	5	
L2022	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L2023	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2026	EXCELSA39	BEAD CHOKE	1	
L2027	EXCELSA35	BEAD CHOKE	1	
L2028	EXCELSA39	BEAD CHOKE	1	
L2030	EXCELSA35	BEAD CHOKE	1	
L2031	J0JCC0000241	CHIP INDUCTOR	1	
L2032	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2035	J0JCC0000241	CHIP INDUCTOR	1	
L2036	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2038	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2040	TSK1032	BEAD CHOKE	1	J0JCC0000100
L2050	EXCELSA39	BEAD CHOKE	1	
L2051,52	EXCELDR35C	BEAD CHOKE	2	
L2053	EXCELSA39	BEAD CHOKE	1	
L2310	EXCELSA35	BEAD CHOKE	1	
L2701	EXCELDR35C	BEAD CHOKE	1	
L2702	TALFP15B560K	CHOKE COIL	1	G0A560GA0001
L3002	ELESE4R7JA	PEAKING COIL	1	
L3003,04	EXC3BB221H	BEAD CHOKE	2	
L3007-12	EXC3BB221H	BEAD CHOKE	6	
L6719,20	EXCELDR25C	BEAD CHOKE	2	
L7001-06	EXCELSA39	BEAD CHOKE	6	
L7101	ELJPA100KB	CHIP INDUCTOR	1	
L7102	J0JHC0000035	CHIP INDUCTOR	1	
L7301	ELJPA100KB	CHIP INDUCTOR	1	
L7704	ELESE100JA	PEAKING COIL	1	
LB1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LB2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
LC1101-04	TLK212T256AL	EMI FILTER	4	J0HAAB000012
LC1105,06	TLK20LFA223M	EMI FILTER	2	J0HABB000003
LC1107-09	ELKE103FA	NOISE FILTER	3	
LC1110	TLK20LFA103M	EMI FILTER	1	J0HABB000009
LC1111-13	TLK20LFA223M	EMI FILTER	3	J0HABB000003
LC1114	TLK20LFA224M	EMI FILTER	1	J0HABB000004
LC1115-20	TLK20LFA103M	EMI FILTER	6	J0HABB000009
LC1121-24	TLK20LFA224M	EMI FILTER	4	J0HABB000004
LC1125-46	TLK20LFA103M	EMI FILTER	22	J0HABB000009
LC1147	ELKE103FA	NOISE FILTER	1	
LC1151-53	TLK212T256AL	EMI FILTER	3	J0HAAB000012
LG1	TJS3A9680	7P CONNECTOR	1	K1KA07A00095

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LG2	TJS3A9880	8P CONNECTOR	1	K1KA08A00179
LG3	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LG4	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
LG5-G7	TJS3A9640	3P CONNECTOR	3	K1KA03A00171
LR1	TJS3A9910	11P CONNECTOR	1	K1KA11A00059
LR2	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
P2	TJS169700	5P CONNECTOR	1	K1KA05A00090
P4	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
P11-15	TJS3A9140	CONNECTOR	5	K1KA08B00121
Q001	2SB709A	TRANSISTOR	1	2SB0709A
Q353	2SC3942	TRANSISTOR	1	
Q354	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q355,56	2SA1480	TRANSISTOR	2	
Q373	2SC3942	TRANSISTOR	1	
Q374	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q375,76	2SA1480	TRANSISTOR	2	
Q393	2SC3942	TRANSISTOR	1	
Q394	2SC3790E	TRANSISTOR	1	B1BAAN000024
Q395,96	2SA1480	TRANSISTOR	2	
Q451	2SC3311A	TRANSISTOR	1	2SC3311AW
Q501	2SK2962	FET	1	
Q551	2SC5686000RK	TRANSISTOR	1	
Q552-54	2SC1473	TRANSISTOR	3	2SC14730E
Q701	2SK2538000LB	FET	1	
Q805	2SK2123000LB	FET	1	
Q849	2SA19610Q0HW	TRANSISTOR	1	
Q852	2SC3311A	TRANSISTOR	1	2SC3311AW
Q854	2SC3311A	TRANSISTOR	1	2SC3311AW
Q902,03	2SC3311A	TRANSISTOR	2	2SC3311AW
Q907	2SC3311A	TRANSISTOR	1	2SC3311AW
Q908	2SC1318A	TRANSISTOR	1	2SC1318AW
Q951	2SA720-R	TRANSISTOR	1	
Q952,53	2SC1318A	TRANSISTOR	2	2SC1318AW
Q954	2SA720-R	TRANSISTOR	1	
Q955	2SA1535A	TRANSISTOR	1	
Q956	2SC3944A	TRANSISTOR	1	
Q961	2SA720A	TRANSISTOR	1	
Q962	2SC1318A	TRANSISTOR	1	2SC1318AW
Q1001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q1003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q1004	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1006	2SB709A	TRANSISTOR	1	2SB0709A
Q1007	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1020	2SB709A	TRANSISTOR	1	2SB0709A
Q1050	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1112	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1125	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1305	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q1310-12	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q1315,16	2SD601A-R	TRANSISTOR	2	2SD0601AR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q1319-21	2SC2412K	TRANSISTOR	3	
Q1323,24	2SD0601A	TRANSISTOR	2	
Q1325,26	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q1340	2SB709A	TRANSISTOR	1	2SB0709A
Q1342,43	2SB709A	TRANSISTOR	2	2SB0709A
Q1345,46	2SB709A	TRANSISTOR	2	2SB0709A
Q1350	2SB709A	TRANSISTOR	1	2SB0709A
Q1354,55	2SB709A	TRANSISTOR	2	2SB0709A
Q1359	2SB709A	TRANSISTOR	1	2SB0709A
Q1363-65	2SB709A	TRANSISTOR	3	2SB0709A
Q1368	2SD601A	TRANSISTOR	1	2SD0601A
Q1832-36	2SD601A	TRANSISTOR	5	2SD0601A
Q1837	2SD1030	TRANSISTOR	1	
Q1838	XN6501	TRANSISTOR	1	XN06501
Q1839,40	2SB709A	TRANSISTOR	2	2SB0709A
Q1841-48	2SD601A	TRANSISTOR	8	2SD0601A
Q1849,50	2SD1030	TRANSISTOR	2	
Q1851-54	2SB709A	TRANSISTOR	4	2SB0709A
Q1855	XN6501	TRANSISTOR	1	XN06501
Q1856	UN2215	TRANSISTOR	1	UNR2215
Q1857	2SD1030	TRANSISTOR	1	
Q1858,59	2SB709A	TRANSISTOR	2	2SB0709A
Q2001-04	2SB709A	TRANSISTOR	4	2SB0709A
Q2006,07	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q2009	2SB709A	TRANSISTOR	1	2SB0709A
Q2010	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2011	2SB709A	TRANSISTOR	1	2SB0709A
Q2013	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2303	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q2305	2SB709A	TRANSISTOR	1	2SB0709A
Q2307	2SB709A	TRANSISTOR	1	2SB0709A
Q2310-14	2SD601A-R	TRANSISTOR	5	2SD0601AR
Q2315	2SB709A	TRANSISTOR	1	2SB0709A
Q2316	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q3001-15	2SD601A-R	TRANSISTOR	15	2SD0601AR
Q3016	2SB709A	TRANSISTOR	1	2SB0709A
Q3017,18	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q3351	2SB1030A	TRANSISTOR	1	
Q3361	2SB1030A	TRANSISTOR	1	
Q3371	2SB1030A	TRANSISTOR	1	
Q3402	2SC3311A	TRANSISTOR	1	2SC3311AW
Q7003	2SC3311A	TRANSISTOR	1	2SC3311AW
Q7301	XN1501TX	TRANSISTOR	1	XN0150100L
Q7701-03	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7704-06	2SB709A	TRANSISTOR	3	2SB0709A
Q7707-09	2SC3526H	TRANSISTOR	3	
Q7710,11	2SB709A	TRANSISTOR	2	2SB0709A
Q7712	2SC3757-R	TRANSISTOR	1	2SC37570R
Q7713,14	2SB709A	TRANSISTOR	2	2SB0709A
Q7715	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q7716	2SB709A	TRANSISTOR	1	2SB0709A
Q7717-19	2SD601A-R	TRANSISTOR	3	2SD0601AR
Q7720-25	2SB709A	TRANSISTOR	6	2SB0709A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q9301	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q9601	2SA1309A	TRANSISTOR	1	2SA13090WA
Q9602	2SC4635	TRANSISTOR	1	
Q9603	2SC3311A	TRANSISTOR	1	2SC3311AW
R001,02	ERJ3GEYJ683	M 68KOHM,J,1/16W	2	
R003	EXC3BB221H	BEAD CHOKE	1	
R004	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R005	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R355	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R357	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R358	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R359	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R362	ERC12GK331	S 330 OHM, 1/2W	1	
R365	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R366,67	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R368,69	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R372	ERC12GK331	S 330 OHM, 1/2W	1	
R373	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R375	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R377	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R378	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R379	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R382	ERC12GK331	S 330 OHM, 1/2W	1	
R383	ERG7ZJ272	M 2.7KOHM, J, 7W	1	
R385	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R386,87	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R388,89	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R390	ERDS2TJ821	C 820 OHM, J,1/4W	1	
R391,92	ERG12SJ101P	M 100 OHM, J,1/2W	2	
R393,94	ERDS1FJ330	C 33 OHM, J,1/2W	2	
R395	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R398	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R399	ERDS2TJ563	C 56KOHM, J,1/4W	1	
R451,52	ERX12SJ3R3	M 3.3 OHM, J,1/2W	2	
R453	ERDS2TJ393	C 39KOHM, J,1/4W	1	
R454	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R455	ERG3FJ331H	M 330 OHM, J, 3W	1	
R456	ER0S2CKF3921	M3.92KOHM, F,1/4W	1	
R457	ERJ3EKF2431	M24.3KOHM, 1/16W	1	
R458	ERJ6ENF3481	M3.48KOHM, 1/10W	1	
R460	ERDS1FJ1R0	C 1 OHM, J,1/2W	1	
R461	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R462	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R463	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R464	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R465	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R466	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R467	ERDS2TC0	C 0 OHM, 1/4W	1	
R468	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R469,70	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R472-74	ERDS2TJ331	C 330 OHM, J,1/4W	3	
R475	ER0S2CKF3011	M3.01KOHM, F,1/4W	1	
R476	ERDS2TJ103	C 10KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R477	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R478	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R501	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R502	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R503	ERG3FJS820D	M 82 OHM, J, 3W	1	
R504	ERG1SJ102P	M 1KOHM, J, 1W	1	
R505	ERX2FZJR18H	M0.18 OHM, J, 2W	1	
R506	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R507	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R508	ERG1SJ150P	M 15 OHM, J, 1W	1	
R510	ERDS1FJ1R5	C 1.5 OHM, J,1/2W	1	
R516	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R517	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R519	ER050CKF4532	M4.53KOHM, F,1/2W	1	ERO50CKF4532
R520	ER0S2CKF2702	M 27KOHM, F,1/4W	1	EROS2CKF2702
R521	ER0S2CKF6041	M6.04KOHM, F,1/4W	1	EROS2CKF6041
R522	ER0S2CHF1302	M 13KOHM, F,1/4W	1	
R524	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R525	TSF19632	FUSE	1	K5Y632Z00001
R526	ERQ12HJ330P	F 33 OHM, J,1/2W	1	
R527	ER0S2CKF2552	M25.5KOHM, F,1/4W	1	
R528	ER0S2CKF8061	M8.06KOHM, F,1/4W	1	
R530	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R531	ERDS2TJ275	C 2.7MOHM, J,1/4W	1	
R532	ERDS2TJ224	C 220KOHM, J,1/4W	1	
R533	EVMAASA00B34	CONTROL 30KOHMB	1	
R534	ERDS2TJ333	C 33KOHM, J,1/4W	1	
R540	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R652,53	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R655-57	ERJ6GEYJ181	M 180 OHM,J,1/10W	3	
R658	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R701	ERDS1FJ680	C 68 OHM, J,1/2W	1	
R703	ERF5AK4R7	W 4.7 OHM, K, 5W	1	
R761	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R762	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R763	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R764	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R801	ERF10ZK4R7	W 4.7 OHM, Z, 10W	1	
R803,04	ERG2FJS393D	M 39K OHM, J, 2W	2	
R806	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R810	ERX12SJR12P	M 12 OHM, J,1/2W	1	
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W	1	⚠
R819	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R820	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R821	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R822	ERDS2TJ820	C 82 OHM, J,1/4W	1	
R831	ERF2AK5R6	W 5.6 OHM, K, 2W	1	
R832	ERDS1FJ391	C 390 OHM, J,1/2W	1	
R833	ERJ6ENF2151	M2.15KOHM, 1/10W	1	
R834	ERJ6ENF4121	M4.12KOHM, 1/10W	1	
R836,37	ERDS2TJ152	C 1.5KOHM, J,1/4W	2	
R845	ERX1SJR27P	M0.27 OHM, J, 1W	1	
R854	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R855	ER0S2CKF1001	M 1KOHM, F,1/4W	1	EROS2CKF1001

R853	ERJ8ENF1001	MF 1KOHM, F,1/4W	1	ERJ8ENF1001

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R856	ER0S2CKF8661	M8.66KOHM, F,1/4W	1	
R861	ERG3FJS470D	M 47 OHM, J, 3W	1	TX-51P800X,TX-43P800X
R867	ERG3FJ153H	M 15KOHM, J, 3W	1	
R870	ERC12ZGK335	S 3.3MOHM, K,1/2W	1	⚠
R871	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R872	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R873	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R877	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R880	ERDS2TJ183	C 18KOHM, J,1/4W	1	
R881	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R882	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R883	ERG1SJ104P	M 100KOHM, J, 1W	1	
R884	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R885,86	ERX1SJ1R0	M 1.0 OHM, J, 1W	2	
R890	ERDS1FJ102	C 1KOHM, J,1/2W	1	
R891	ERDS1FJ122	C 1.2KOHM, J,1/2W	1	
R901	ERDS1FJ821	C 820 OHM, J,1/2W	1	
R902	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R903	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R904,05	ERDS2TJ472	C 4.7KOHM, J,1/4W	2	
R906	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R907	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R908	ERDS2TJ272	C 2.7KOHM, J,1/4W	1	
R914	ERDS2TJ562	C 5.6KOHM, J,1/4W	1	
R915	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R916	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R917	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R920	ERDS2TJ181	C 180 OHM, J,1/4W	1	
R922,23	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R951	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R952	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R953	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R954	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R955	ERDS2TJ271	C 270 OHM, J,1/4W	1	
R956	ERDS1FJ152	C 1.5KOHM, J,1/2W	1	
R960	ERQ14AJ100	F 10 OHM, J,1/4W	1	
R964	ERDS2FJ122	C 1.2KOHM, J,1/4W	1	
R965	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R966	ERG1SJ271	M 270 OHM, J, 1W	1	
R967	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R968	ERDS2TJ122	C 1.2KOHM, J,1/4W	1	
R969	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R970,71	ERDS2TJ8R2	C 8.2 OHM, J,1/4W	2	
R972	ERDS1FJ390	C 39 OHM, J,1/2W	1	
R973	ERDS1FJ470	C 47 OHM, J,1/2W	1	
R975-77	ERG1SJ271	M 270 OHM, J, 1W	3	
R978	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R1001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1002	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R1003	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1004	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1005	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1006	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1007	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

R1007	ERJ3GEYJ103	M 10KOHM,5,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1009	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1010	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R1011	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1013	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1014	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1016	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1020	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1021	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1022	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1023	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1025	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1026	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1027	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1028,29	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R1035,36	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R1037,38	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1043	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R1044	ERDS2TJ123	C 12KOHM, J,1/4W	1	
R1045	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R1046	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R1050	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1051	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1052	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1053-59	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R1060 02	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R1060,61	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1069-71	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R1072	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1074	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1075	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1081	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R1082	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R1083,84	ERDS2TJ101	C 100 OHM, J,1/4W	2	
R1085	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R1101,02	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R1103,04	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1105-10	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R1111,12	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1113	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1115	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1116	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R1117	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1118-21	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R1122	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1126	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1128	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R1131	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1132	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1134	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1143	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1145	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1146	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1147	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1149	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1150,51	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1152	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1153	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R1154	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1155	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1156	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1157,58	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1159	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1160	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1161-63	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1167	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1169	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1170	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1178	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1180	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1188-93	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R1194	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1195	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1196	EXB38V680J	RESISTOR ARRAY	1	
R1202	EXB38V680J	RESISTOR ARRAY	1	
R1205	EXB38V680J	RESISTOR ARRAY	1	
R1209	EXB38V680J	RESISTOR ARRAY	1	
R1212,13	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R1214	EXB38V680J	RESISTOR ARRAY	1	
R1217	EXB38V680J	RESISTOR ARRAY	1	
R1221	EXB38V680J	RESISTOR ARRAY	1	
R1225	EXB38V680J	RESISTOR ARRAY	1	
R1232,33	EXB38V680J	RESISTOR ARRAY	2	
R1236	EXB38V680J	RESISTOR ARRAY	1	
R1249,50	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1255	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1256	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1257	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1258	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1264	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1307	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1309	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1313	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1317	ERJ3EKF3902	M 39KOHM, 1/16W	1	
R1318	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1325	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1350	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1354	ERJ3EKF1132	M11.3KOHM, 1/16W	1	
R1356	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1359	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1360	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1361	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1364	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1365	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1366-69	ERJ3GEYJ223	M 22KOHM,J,1/16W	4	
R1370,71	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1382	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1383,84	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1385	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1386	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1387	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1388	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1389	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1390	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1391	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R1393	ERJ3EKF2400	M 240 OHM, 1/16W	1	
R1394	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1395	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R1396	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1399,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1401	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1402	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1403	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1405	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R1406	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1407	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1409	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1410	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1411	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1412	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1413	ERJ3EKF2490	M 249 OHM, 1/16W	1	
R1414	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1415	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1416	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1417	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R1418	ERJ3EKF43R0	M 43 OHM, 1/16W	1	
R1419	ERJ3EKF1020	M 102 OHM, 1/16W	1	
R1420,21	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1422	ERJ3EKF47R0	M 47 OHM, 1/16W	1	
R1435	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1439	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1440-42	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R1443	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1446	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1447	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1449	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R1450	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1451	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1452	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1453	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1454,55	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1457	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1458	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R1459	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R1460	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1461	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1462	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R1464	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1466	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R1467-70	ERJ3GEYJ333	M 33KOHM,J,1/16W	4	
R1471	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1472	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1473	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R1474	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R1475	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1476	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R1477,78	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1479	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1480	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1481	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1482	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1483	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1484	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1485	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1486	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1487	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1488,89	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1490	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1491	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1492	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1493	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1494	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1495	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1496	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1497	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1499	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R1500	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1501	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1502,03	ERJ3EKF1401	M 1.4KOHM, 1/16W	2	
R1504	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1505	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1507	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1509	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1510	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1511	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R1512,13	ERJ3EKF1101	M 1.1KOHM, 1/16W	2	
R1514	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R1515	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1516	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1517	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1518	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1519	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1520	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1521	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1522	ERJ3EKF33R0	M 33 OHM, 1/16W	1	
R1524	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1525,26	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1528	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1529	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1531	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1533	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1534	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1535	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1536	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1537	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1538	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1540,41	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1544	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1545	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1547	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1548	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R1551,52	ERJ3GEYJ162	M 1.6KOHM,J,1/16W	2	
R1553	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	1	
R1554	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1556	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1557-59	ERJ3GEYJ121	M 120 OHM,J,1/16W	3	
R1566	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1569	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1570	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R1573-76	ERJ3GEYJ471	M 470 OHM,J,1/16W	4	
R1578,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1580	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1583	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R1588	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1591	ERJ3EKF2202	M 22KOHM, 1/16W	1	
R1592	ERJ3EKF6341	M6.34KOHM, 1/16W	1	
R1601	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1602,03	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1604	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1605	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R1606-08	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1609-11	ERJ3EKF1500	M 150 OHM, 1/16W	3	
R1612-14	ERJ3EKF33R0	M 33 OHM, 1/16W	3	
R1615	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R1616	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1617	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1618	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1619,20	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1621	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1622	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R1623,24	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1625	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1626	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R1627	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R1628	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R1629	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1630	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1631,32	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R1633	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R1634	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1635	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1639	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1652,53	EXB38VR000	RESISTOR ARRAY	2	
R1654-61	EXB38V820J	RESISTOR ARRAY	8	
R1665-68	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R1669,70	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R1671	EXB38V103J	RESISTOR ARRAY	1	
R1672-79	EXB38V820J	RESISTOR ARRAY	8	
R1680	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1681	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1682	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1686	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1688-91	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R1692	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1693,94	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R1695,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1697,98	ERJ3EKF1500	M 150 OHM, 1/16W	2	
R1700,01	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1706	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R1708	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1710-13	EXB38V221J	RESISTOR ARRAY	4	
R1715,16	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1722	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R1723	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R1724	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1728,29	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R1732-34	EXB38VR000	RESISTOR ARRAY	3	
R1735,36	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1737	ERJ3GEYJ242	M 2.4KOHM,J,1/16W	1	
R1739	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R1740	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1741	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R1850	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1851-53	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R1854,55	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R1856	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1857,58	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R1859-62	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R1864	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1865-67	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	3	
R1868,69	ERJ3EKF1200	M 120 OHM, 1/16W	2	
R1870,71	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R1873,74	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R1875	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R1876-78	ERJ3EKF2700	M 270 OHM, 1/16W	3	
R1879,80	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R1881	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1882,83	ERJ3EKF6801	M 6.8KOHM, 1/16W	2	
R1884	ERJ3EKF1201	M 1.2KOHM, 1/16W	1	
R1885	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R1886	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R1887,88	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R1890-93	ERJ3GEYJ330	M 33 OHM,J,1/16W	4	
R1894-99	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R1901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1903	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1904,05	ERJ3EKF1200	M 120 OHM, 1/16W	2	
R1906,07	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R1910-33	ERJ3GEYJ820	M 82 OHM,J,1/16W	24	
R1934	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1935	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1939,40	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1941	EXB38V820J	RESISTOR ARRAY	1	
R1945	EXB38V820J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1949	EXB38V820J	RESISTOR ARRAY	1	
R1953	EXB38V820J	RESISTOR ARRAY	1	
R1957	EXB38V820J	RESISTOR ARRAY	1	
R1960	ERJ3GEYJ820	M 82 OHM,J,1/16W	1	
R1961	EXB38V820J	RESISTOR ARRAY	1	
R1962	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R1963-67	ERJ3GEYJ102	M 1KOHM,J,1/16W	5	
R1968,69	ERJ3EKF39R0	M 39 OHM, 1/16W	2	
R1970	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1971,72	ERJ3EKF4701	M 4.7KOHM, 1/16W	2	
R1973	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R1974	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R1975	ERJ3EKF7680	M 768 OHM, 1/16W	1	
R1976	ERJ3EKF3300	M 330 OHM, 1/16W	1	
R1977,78	ERJ3EKF1800	M 180 OHM, 1/16W	2	
R1979	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R1980	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R1981	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R1982	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1986	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R1987,88	ERJ6ENF1501	M 1.5KOHM, 1/10W	2	
R1989	ERJ6ENF9100	M 910 OHM, 1/10W	1	
R1995	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R2001,02	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2004-07	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R2009,10	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2012,13	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R2014,15	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2019,20	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2021	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2022	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R2023	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2024	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2025	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2026	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R2027	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2029	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2030	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2031	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2035	ERJ3GEYF223	M 22KOHM, 1/16W	1	
R2036	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R2038	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R2039	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2040,41	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R2045-48	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2052	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2056	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2057	ERJ3GEYF103	M 10KOHM, 1/16W	1	
R2301	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2303,04	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2307,08	ERD25FJ2R2	C 2.2 OHM, J,1/4W	2	
R2309,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2311	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2312	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2315	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R2319	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R2322	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R2323	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2324	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2325	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2326	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2327	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2328	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2329	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2330	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R2343	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2344	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2345	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2347	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2348	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2349,50	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R2351	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2353	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2356	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R2357	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2358	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R2360,61	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R2362	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2364-66	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R2367	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2369	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2379	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2383,84	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2387	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2389	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2390	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2391	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R2393,94	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R2455	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2483	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2705	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R2706	ERX3FJS150D	M 15 OHM, J, 3W	1	
R3001	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3002	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3003	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3004	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R3005-07	ERJ6GEYJ821	M 820 OHM,J,1/10W	3	
R3008-10	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3011-13	ERJ6GEYJ821	M 820 OHM,J,1/10W	3	
R3014-16	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3017,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3019	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3020	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3021	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3022	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3023	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3024	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R3025	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3026	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R3027	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3028,29	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R3030	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3031	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3032	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3033	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3034	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R3035	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3036	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R3037	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3038,39	ERJ3GEYJ821	M 820 OHM,J,1/16W	2	
R3040,41	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R3042,43	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3044	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3048,49	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3050	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3051-53	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3054,55	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3056	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3057-59	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3060,61	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3062	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3063-65	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3066	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3067	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3068,69	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3070	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3071	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R3074-79	ERJ3GEYJ223	M 22KOHM,J,1/16W	6	
R3080	ERJ8ENF75R0	M 75 OHM, 1/8W	1	
R3081	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3082	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3083,84	ERJ8ENF75R0	M 75 OHM, 1/8W	2	
R3085	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R3086	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3087-89	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3090	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R3091-93	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3095-97	ERJ8ENF75R0	M 75 OHM, 1/8W	3	
R3098	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3099,00	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3113-15	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	3	
R3119	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3120	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R3132	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R3133,34	ERJ8ENF75R0	M 75 OHM, 1/8W	2	
R3135	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3136,37	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R3138	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3211	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3355	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3356	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3357	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3365	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3366	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3367	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3375	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3376	ERDS2TJ822	C 8.2KOHM, J,1/4W	1	
R3377	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R3421	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R3422	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R7005-07	ERDS2TJ103	C 10KOHM, J,1/4W	3	
R7010	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7011	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7012	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7013	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7014	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7015	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7016	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7017	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7018	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7019	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7020	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R7021	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R7024-29	ERDS2TJ222	C 2.2KOHM, J,1/4W	6	
R7030	ERG2FJ121H	M 120 OHM, J, 2W	1	
R7031-33	ERG2FJ820H	M 82 OHM, J, 2W	3	
R7034	ERG2FJ121H	M 120 OHM, J, 2W	1	
R7035	ERG2FJ820H	M 82 OHM, J, 2W	1	
R7036	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7040	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7048	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7052	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7060	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7064	ERX2FJS2R2D	M 2.2 OHM, J, 2W	1	
R7080	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7085	ERX1SJR39	M0.39 OHM, J, 1W	1	
R7090-95	ERDS2TJ332	C 3.3KOHM, J,1/4W	6	
R7101-03	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R7104,05	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7106-08	ERJ6ENF4702	M 47KOHM, 1/10W	3	
R7109	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7111	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7112,13	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7114-17	ERJ6ENF4702	M 47KOHM, 1/10W	4	
R7118-21	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	4	
R7122,23	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7124,25	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7126	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7127	ERJ6ENF6200	M 620 OHM, 1/10W	1	
R7128	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R7129,30	EXB38V820J	RESISTOR ARRAY	2	
R7131	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7134	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R7135-37	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7140	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7141	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7142	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7143	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7144	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7145	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7146	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7147	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7148	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7149	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7150	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7151	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R7152	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7153	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7154	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7155	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R7157,58	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R7160-62	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7163,64	ERJ6GEYJ330	M 33 OHM,J,1/10W	2	
R7165,66	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7167	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7168,69	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R7170-72	ERJ6GEYJ330	M 33 OHM,J,1/10W	3	
R7175	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7191	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R7192	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R7193	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R7301-03	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7304	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7305,06	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R7307	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7308-11	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R7312-14	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	3	
R7701-03	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7705	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7707	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7709	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7716	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7717-19	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R7724-26	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R7727-29	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R7733	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7734,35	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7736	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7737	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7738,39	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7740	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7741	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7742,43	ER0S2CKF2000	M 200 OHM, F,1/4W	2	
R7744	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R7745	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7746-48	ERJ6ENF82R0	M 82 OHM, 1/10W	3	
R7750-52	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R7753	ERJ6ENF3901	M 3.9KOHM, 1/10W	1	
R7754	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R7755	ERJ6ENF2000	M 200 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7756	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R7757	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R7758-61	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7762	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R7763	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7765	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R7766,67	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7771	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7772	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R7773	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7776-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R7779	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7780	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R7781	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R7782	ERJ6ENF56R0	M 56 OHM, 1/10W	1	
R7789	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7790	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7791	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7792	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7793	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R7794	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R7795-97	ER0S2CKF2000	M 200 OHM, F,1/4W	3	
R7801	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R7802	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7803	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7804	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7805	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R7806	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7807	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7808	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R7809	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R7810	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R7811	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R7812	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R9305	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9318	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R9319	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R9320	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R9602	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R9603	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R9604-06	ERDS2TJ102	C 1KOHM, J,1/4W	3	
R9607	ERG2FJS222D	M 2.2KOHM, J, 2W	1	
R9608	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R9609	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R9610	ER0S2CKF1501	M1.50KOHM, F,1/4W	1	EROS2CKF1501
R9611-15	ERG2FJS333D	M 33KOHM, J, 2W	5	
R9616	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9617	ER0S2CKF2801	M2.80KOHM, F,1/4W	1	EROS2CKF2801
R9618	ER0S2CKF2741	M2.74KOHM, F,1/4W	1	
R9619	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9620	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R9621	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R9622	ERC12GK103	S 10KOHM, K,1/2W	1	
R9623	ERDS2TJ104	C 100KOHM, J,1/4W	1	

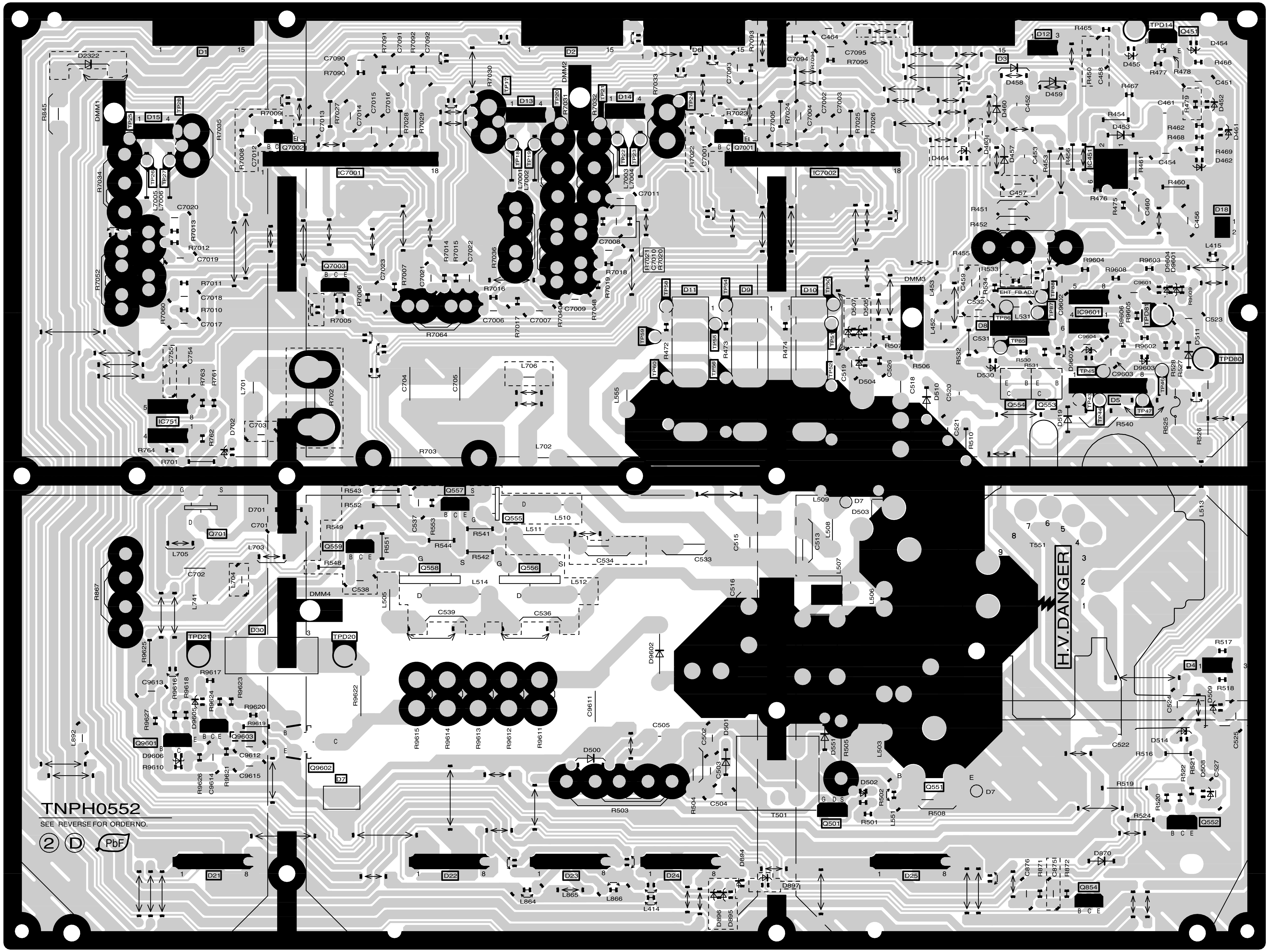
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9624	ER0S2CKF1500	M 150 OHM, F,1/4W	1	
R9625	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R9626	ERDS2TJ221	C 220 OHM, J,1/4W	1	
R9627	ER0S2CKF2742	M27.4KOHM, F,1/4W	1	
RL801	K6B1ADA00010	RELAY	1	⚠
RL802	TSEH8011	RELAY	1	K6B1AGA00043 ⚠
RL3401	TSEH8017	SWITCH	1	K6B2CFA00015
RM1001	GP1U282Q	REMOCON RECIEVER	1	B3RAD0000012
RTL	TZTNP020JBV	CIRCUIT BOARD A	1	TX-51P800X/HQ ⚠
RTL	TZTNP020JAV	CIRCUIT BOARD A	1	TX-51P800HM ⚠
RTL	TZTNP040HWV	CIRCUIT BOARD A	1	TX-43P800X/HQ/HZ ⚠
RTL	TZTNP010HWV	CIRCUIT BOARD A	1	TX-43P800HM
RTL	TZTNP010JAV	CIRCUIT BOARD D	1	TX-51P800X/HM/HQ ⚠
RTL	TZTNP020HWV	CIRCUIT BOARD D	1	TX-43P800X/HM/HQ ⚠
RTL	TZTNP010HYV	CIRCUIT BOARD D	1	TX-43P800HZ ⚠
RTL	TNPA2555AD	CIRCUIT BOARD H	1	⚠
RTL	TNPA2945AB	CIRCUIT BOARD P	1	TX-51P800X ⚠
RTL	TNPA2945	CIRCUIT BOARD P	1	TX-51P800HM/HQ ⚠
RTL	TXN/P10HZV	CIRCUIT BOARD P	1	TX-43P800X ⚠
RTL	TXN/P10HWV	CIRCUIT BOARD P	1	TX-43P800HM/HQ ⚠
RTL	TXN/P10HYV	CIRCUIT BOARD P	1	TX-43P800HZ ⚠
RTL	TZTNP010JBV	CIRCUIT BOARD U	1	51 inch models ⚠
RTL	TZTNP030HWV	CIRCUIT BOARD U	1	43 inch models ⚠
RTL	TNPA2934	CIRCUIT BOARD DC	1	51 inch models ⚠
RTL	TXNDC10HWV	CIRCUIT BOARD DC	1	43 inch models ⚠
RTL	TXNDG10JBV	CIRCUIT BOARD DG	1	⚠
RTL	TNPA2332AF	CIRCUIT BOARD LR	1	51 inch models ⚠
RTL	TNPA2332AG	CIRCUIT BOARD LR	1	43 inch models ⚠
RTL	TNPA2333AF	CIRCUIT BOARD LG	1	51 inch models ⚠
RTL	TNPA2333AG	CIRCUIT BOARD LG	1	43 inch models ⚠
RTL	TNPA2334AF	CIRCUIT BOARD LB	1	51 inch models ⚠
RTL	TNPA2334AG	CIRCUIT BOARD LB	1	43 inch models ⚠
RTL	TNPA2936	CIRCUIT BOARD G	1	⚠
RTL	TNPA2941	CIRCUIT BOARD KA	1	⚠
RTL	TNPA2940	CIRCUIT BOARD K	1	⚠
S840	ESB92S11B	SWITCH	1	⚠
S1003-07	EVQ23405R	SWITCH	5	
T001	TSK1040	FERRITE CORE	1	G1BYYYH00004
T501	ETH19Y187AY	DRIVE TRANS	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
T551	KFT7AA457F	FLYBACK TRANS	1	⚠
T801	ETS42AE2X6AC	POWER TRANS	1	⚠
T881	ETS24KC156AG	SWITCHING TRANS	1	⚠
T1001	TSKX027	CHOKE COIL	1	G0BYYYG00005
T2001	TSK1040	FERRITE CORE	1	G1BYYYH00004
T2002	TSKX026	CHOKE COIL	1	G0BYYYY00016
T2003	TSK1040	FERRITE CORE	1	G1BYYYH00004
T2004	TSKX026	CHOKE COIL	1	G0BYYYY00016
T3001	TSKX026	CHOKE COIL	1	G0BYYYY00016
TNR001	J3AAABZ00004	TUNER	1	⚠
TPA12	ERD25V0R00	C 0 OHM, 1/4W	1	
TPA32	ERD25V0R00	C 0 OHM, 1/4W	1	
U1,U2	K1KB30A00092	30P CONNECTOR	2	
X1101	H0J600400006	CRYSTAL	1	
X1301	H0J202500002	CRYSTAL	1	
X2001	TSSA128	CRYSTAL	1	H0D184500008

19. Schematic DIagram for printing with A4

20. Cover for printing with A4

D-Board(FOIL SIDE)
TZTNP010JAV(TX-51P800X/HM/HQ)
TZTN020HWV(TX-43P800X/HM/HQ) TZTNP010HYV(TX-43P800HZ)



6
5
4
3
2
1
TNPH0552
SEE REVERSE FOR ORDERNO.
PbF
H.V.DANGER
IC7001
IC7002
IC751
IC451
IC9601
DMM1
DMM2
DMM3
DMM4
T501
T551
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D18
D21
D22
D23
D24
D25
D30
Q451
Q501
Q551
Q552
Q553
Q554
Q555
Q556
Q557
Q558
Q559
Q701
Q854
Q7001
Q7002
Q7003
Q9601
Q9602
Q9603
TPD8
TPD14
TPD20
TPD21
TPD80
A
B
C
D
E
F
G
H
I

TX-51P800X/HM/HQ
D-BOARD TZTNP010JAV

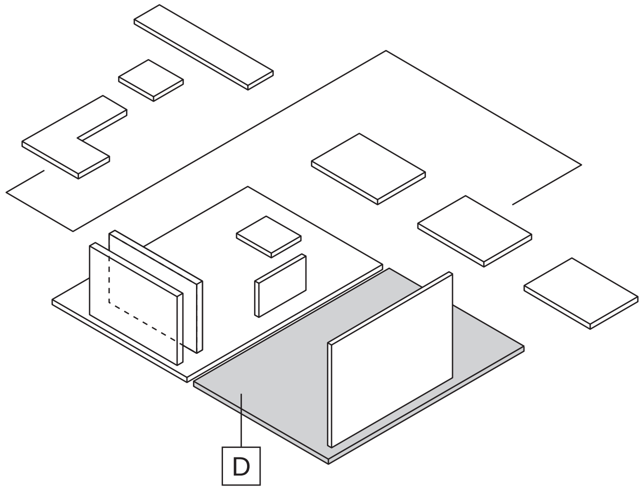
TX-43P800X/HM/HQ
D-BOARD TZTNP020HWV

TX-43P800HZ
D-BOARD TZTNP010HYV

TX-51P800X/HM/HQ
D-BOARD TZTNP010JAV

TX-43P800X/HM/HQ
D-BOARD TZTNP020HWV

TX-43P800HZ
D-BOARD TZTNP010HYV



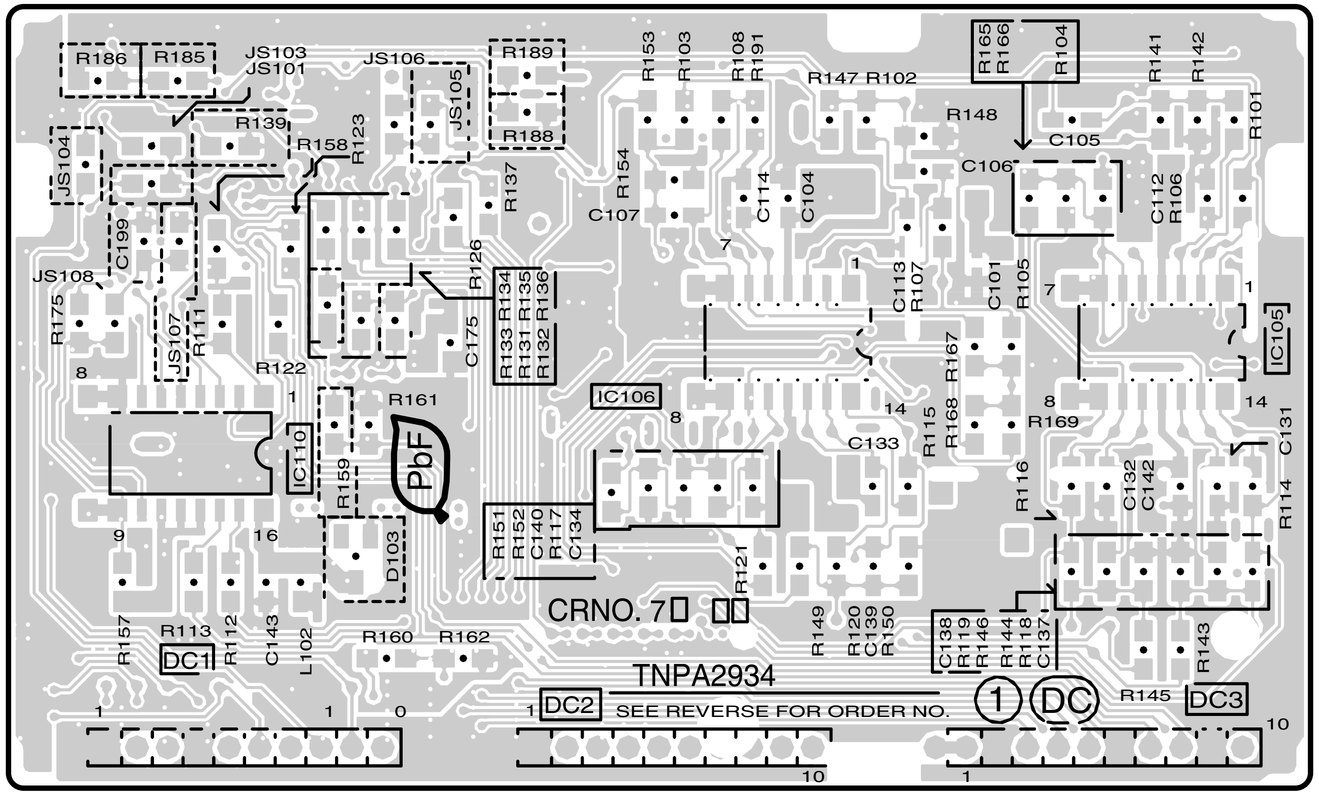
Parts Location

D-BOARD (FOIL SIDE)	
IC	
IC451	G-5
IC751	B-4
IC7001	C-5
IC7002	F-5
IC9601	G-4
TRANSISTOR	
Q451	H-6
Q501	F-2
Q551	F-2
Q552	H-1
Q553	G-4
Q554	G-4
Q555	D-3
Q556	D-3
Q557	D-3
Q558	D-3
Q559	C-3
Q701	B-3
Q854	G-1
Q7001	E-5
Q7002	C-5
Q7003	C-5
Q9601	B-2
Q9602	C-2
Q9603	C-2
TP	
TP17	D-5
TP18	D-5
TP19	D-5
TP20	D-5
TP21	E-5
TP22	E-5
TP23	E-5
TP24	E-6
TP25	B-5
TP26	B-5
TP27	B-5
TP28	B-5
TP43	G-4
TP44	G-4
TP45	G-4
TP46	H-4
TP47	H-4
TP50	F-4
TP51	F-4
TP52	F-4
TP54	E-4
TP55	E-4
TP56	E-4
TP58	E-4
TP59	E-4
TP60	E-4
TP85	G-4
TP86	G-4
TP87	G-4
TP88	G-4
TPD14	H-6
TPD20	C-2
TPD21	B-2
TPD80	H-4
TPD81	H-4

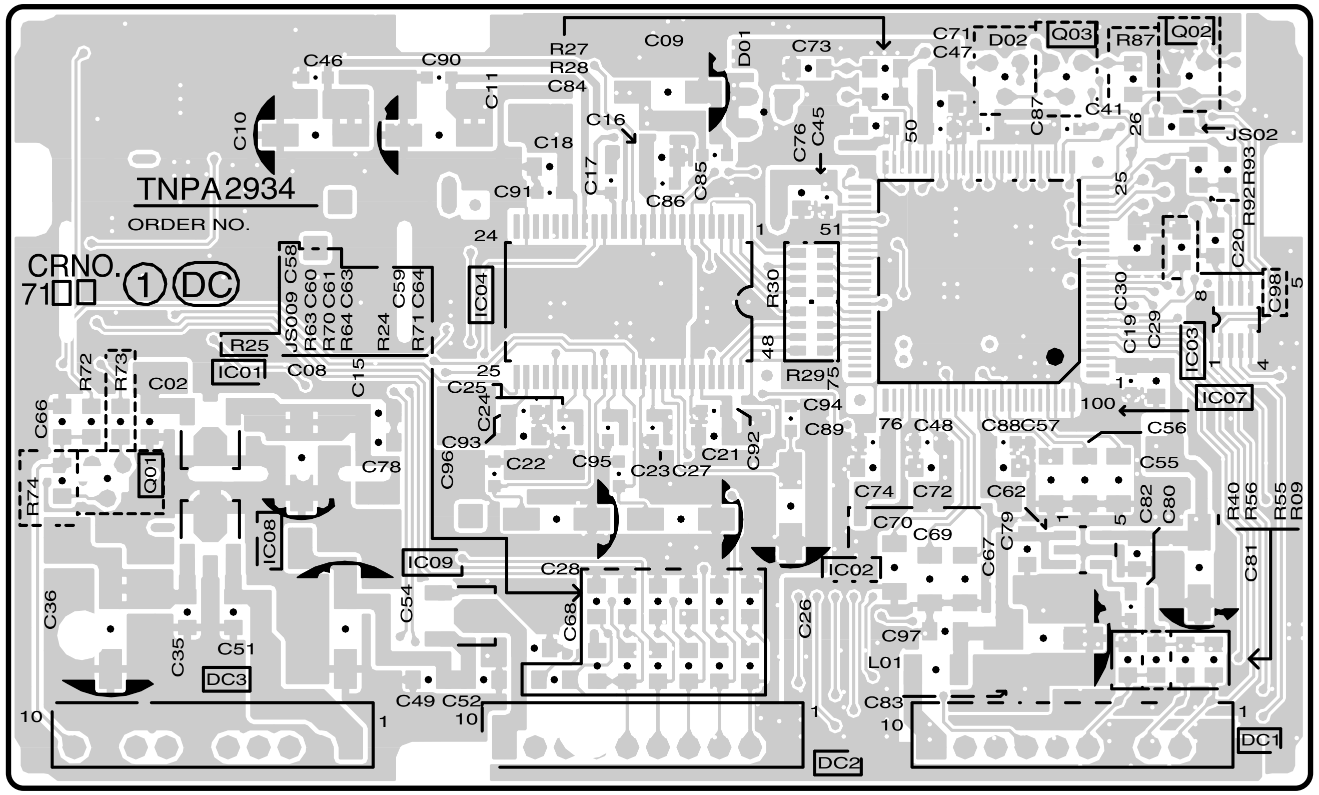
Parts Location

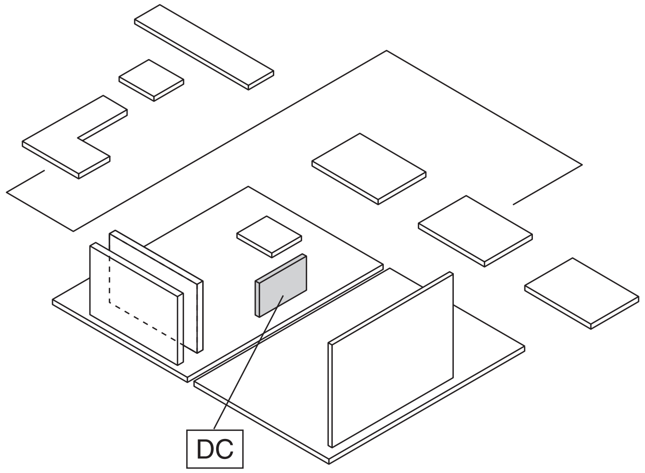
D-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC451	B-5	Q451	B-6	TPD14	B-6
IC751	G-4	Q501	D-2	TPD20	F-2
IC7001	F-5	Q551	C-2	TPD21	G-2
IC7002	C-5	Q552	B-1	TPD80	B-4
IC9601	B-4	Q553	B-4	TPD81	B-4
		Q554	C-4		
		Q555	E-3		
		Q556	E-3		
		Q557	F-3		
		Q558	F-3		
		Q559	F-3		
		Q701	G-3		
		Q854	B-1		
		Q7001	D-5		
		Q7002	G-5		
		Q7003	F-4		
		Q9601	G-2		
		Q9602	G-2		
		Q9603	G-2		

DC-Board(FOIL SIDE)
TZPA2934(51inch Series) TXNDC10HWV(43inch Series)


R186
R185
JS103
JS101
JS106
R189
R188
JS105
R153
R103
R108
R191
R147
R102
R165
R166
R104
R141
R142
R101
R148
C105
C106
JS104
R139
R158
R123
R137
R154
C107
C114
C104
C112
R106
C199
JS108
R175
JS107
R111
R126
R134
R135
R136
R133
R131
R132
C175
C113
R107
C101
R105
IC105
R122
R161
IC106
IC110
R159
PbF
D103
R151
R152
C140
R117
C134
R121
C133
R115
R168
R167
R169
R116
C132
C142
C131
R114
CRNO. 7
R157
R113
DC1
R112
C143
L102
R160
R162
R149
R120
C139
R150
C138
R119
R146
R144
R118
C137
R143
R145
TNPA2934
DC2
SEE REVERSE FOR ORDER NO.
①
DC
DC3

DC-Board(COMPONENT SIDE)
TZPA2934(51inch Series) TXNDC10HWV(43inch Series)


R27
R28
C84
C09
D01
C73
C71
C47
D02
Q03
R87
Q02
C46
C90
C11
C10
C16
C18
C85
C86
C17
C45
C76
C87
C41
JS02
R93
R92
TNPA2934
ORDER NO.
C91
CRNO.
71
①
DC
JS009
C58
R63
C60
R70
C61
R64
C63
R24
C59
R71
C64
IC04
R30
C20
C30
C98
C19
C29
IC03
R25
IC01
C08
C15
R29
IC07
C25
C24
C94
C89
C48
C88
C57
C56
R72
R73
C02
C66
C93
C22
C95
C23
C27
C21
C92
C55
R74
Q01
C78
C96
C74
C72
C62
C82
C80
R40
R56
R55
R09
IC08
C70
C69
C67
C79
C81
IC09
C28
IC02
C36
C54
C68
C26
C97
C35
C51
L01
DC3
C49
C52
C83
DC2
DC1



Parts Location

DC-BOARD (FOIL SIDE)			
IC			
IC7105	E-5		
IC7106	D-5		
IC7110	B-5		

Parts Location

DC-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC7101	B-2	Q7101	B-2
IC7102	D-2	Q7102	E-3
IC7103	E-2	Q7103	E-3
IC7104	C-2		
IC7107	D-2		
IC7108	B-2		
IC7109	C-1		

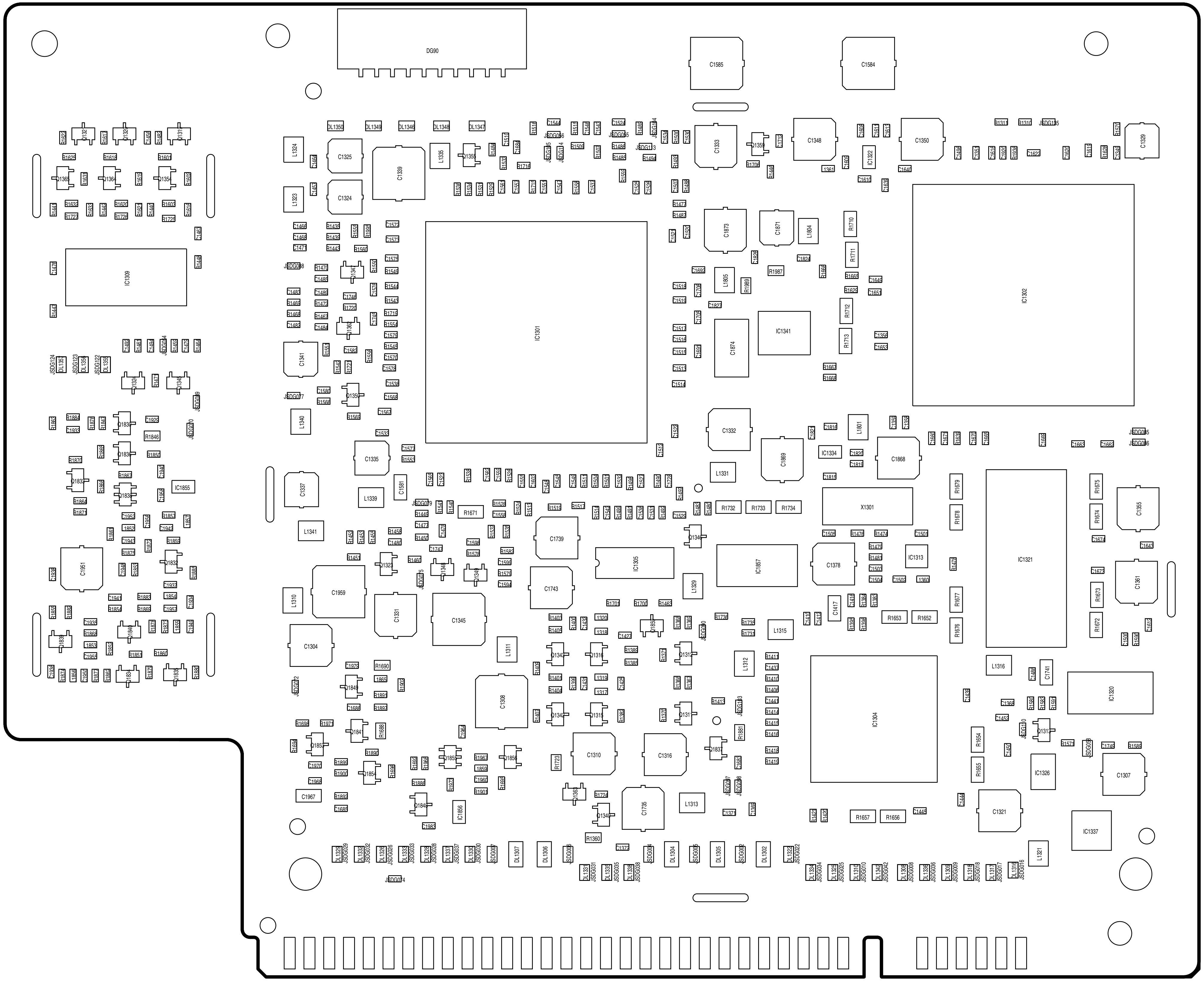
TX-51P800X/HM/HQ
D-BOARD TZPA2934

TX-43P800X/HM/HQ/HZ
D-BOARD TXNDC10HWV

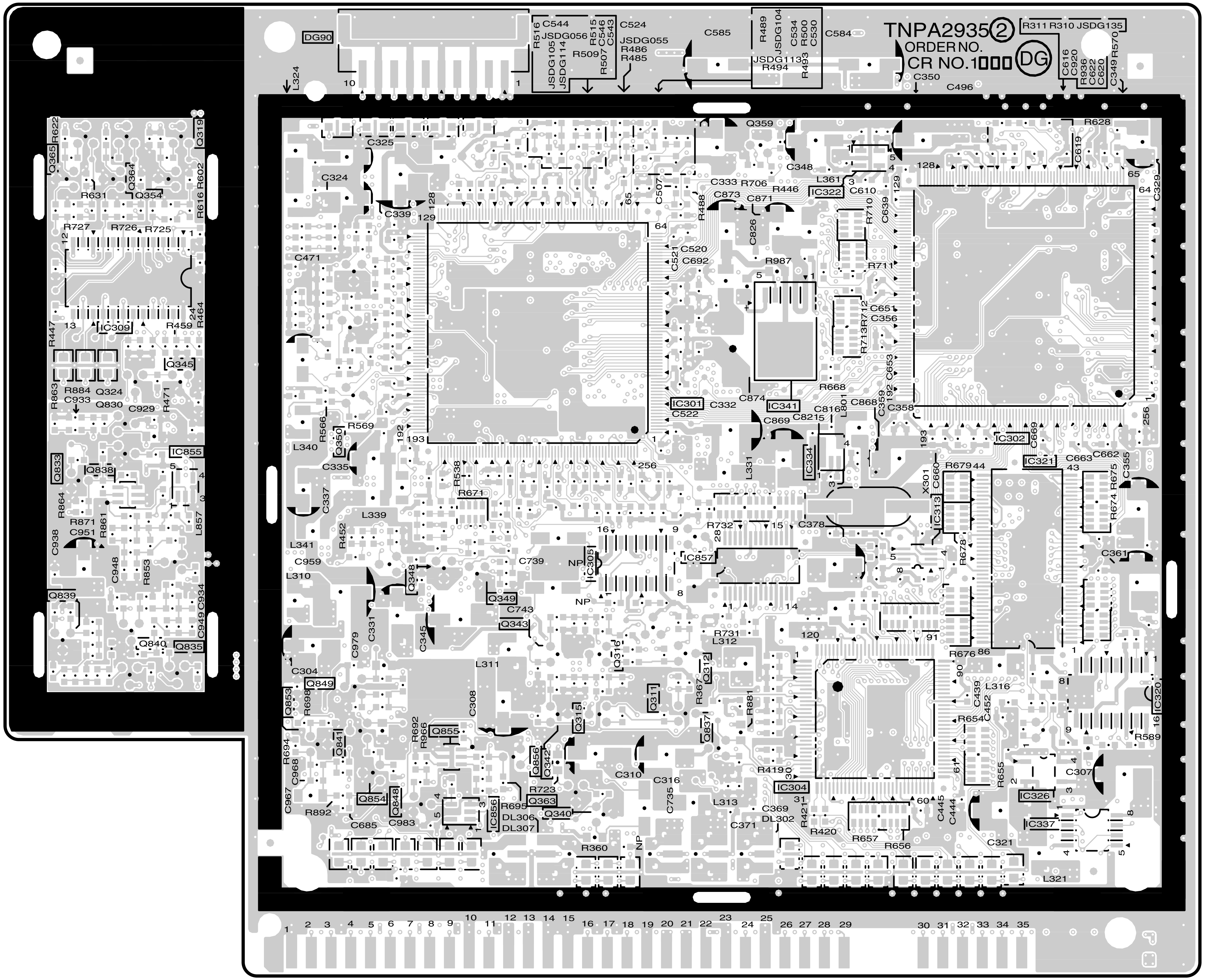
TX-51P800X/HM/HQ
D-BOARD TZPA2934

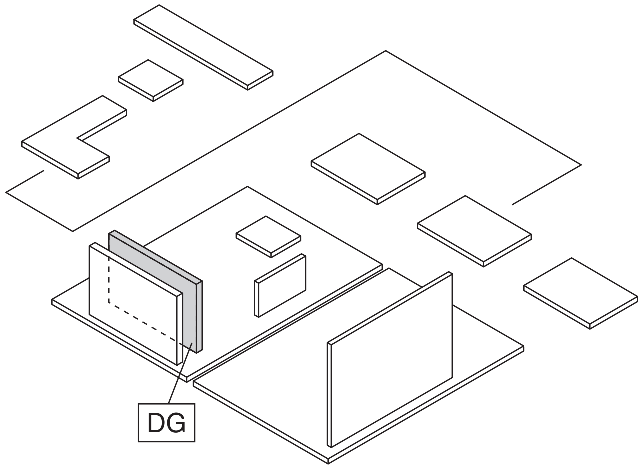
TX-43P800X/HM/HQ/HZ
D-BOARD TXNDC10HWV

DG-Board(COMPONENT SIDE)
TXNDG10JBV



DG-Board(COMPONENT SIDE)
TXNDG10JBV

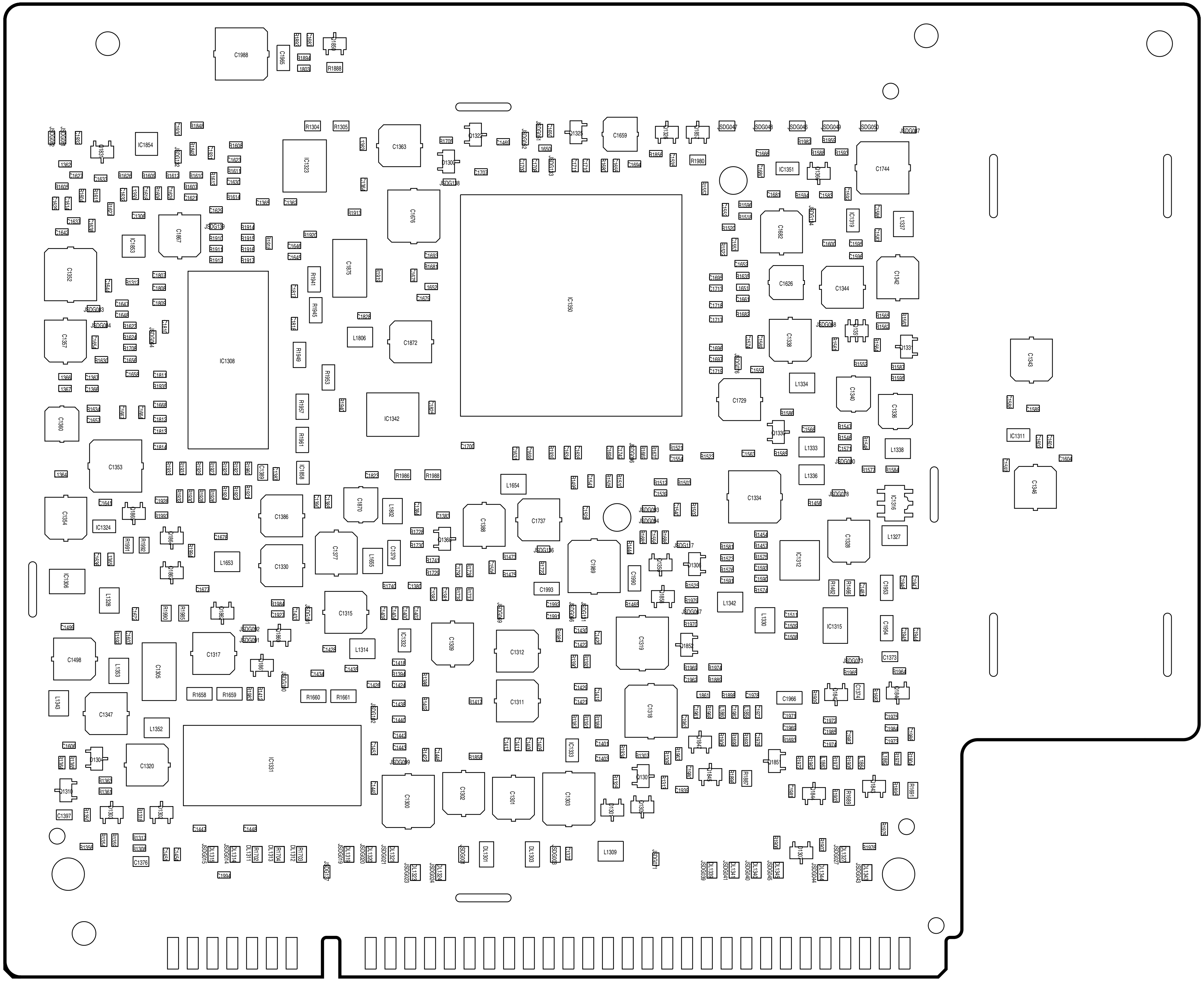

TNPA2935 ②
ORDER NO.
CR NO.1
DG
DG90
IC1301
IC1302
IC1304
IC1305
IC1309
IC1313
IC1320
IC1321
IC1322
IC1326
IC1334
IC1337
IC1341
IC1855
IC1856
IC1857
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I



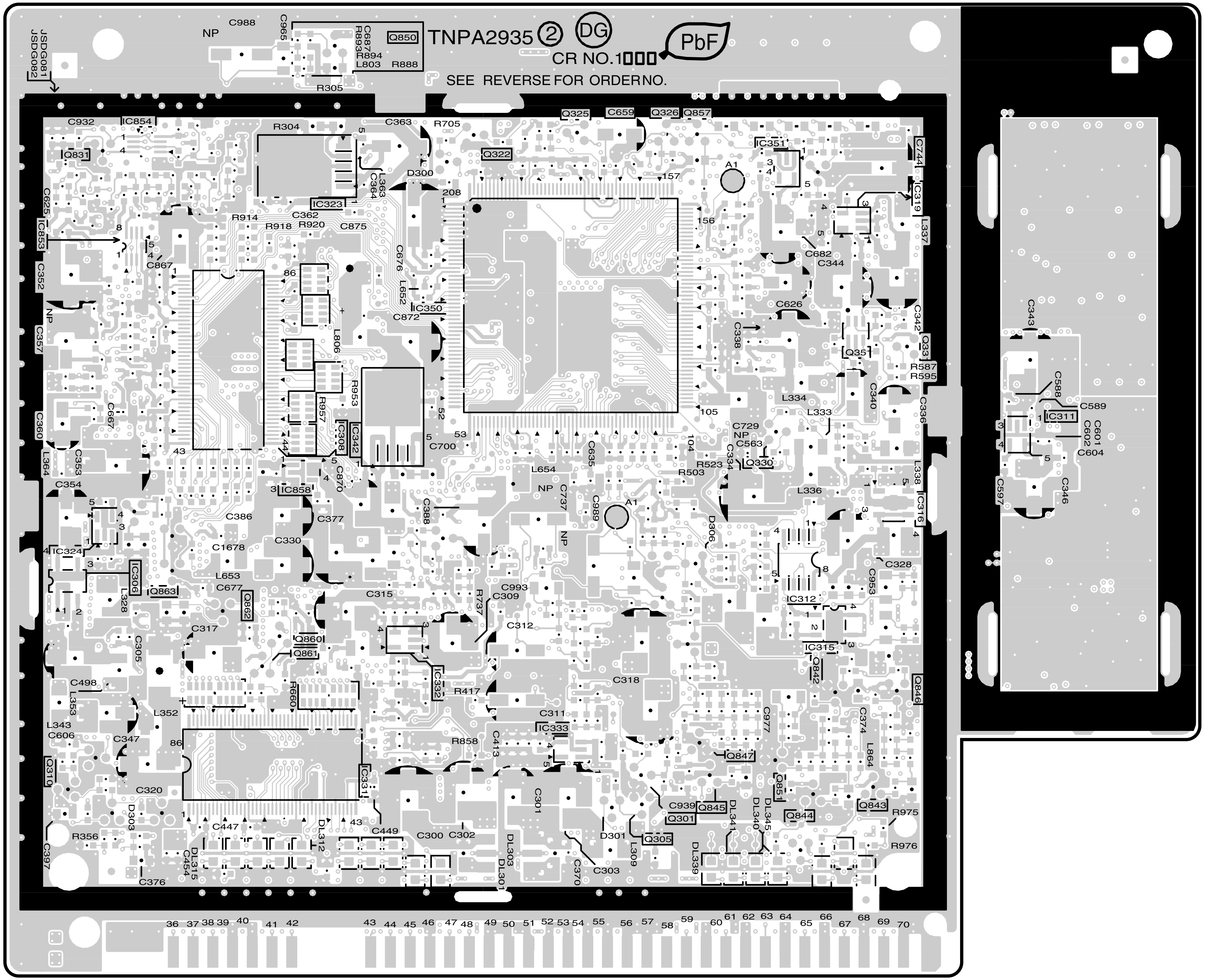
Parts Location

DG-BOARD (COMPONENT SIDE)	
IC	
IC1301	D-4
IC1302	F-5
IC1304	F-2
IC1305	D-3
IC1309	B-5
IC1313	F-3
IC1320	G-2
IC1321	F-3
IC1322	F-5
IC1326	G-2
IC1334	E-4
IC1337	G-2
IC1341	E-4
IC1855	B-3
IC1856	C-2
IC1857	E-3
TRANSISTOR	
Q1311	D-2
Q1312	E-3
Q1313	F-2
Q1315	D-2
Q1316	D-3
Q1319	B-5
Q1320	B-5
Q1321	A-5
Q1323	C-3
Q1324	B-4
Q1340	D-2
Q1342	D-2
Q1343	D-3
Q1345	B-4
Q1346	E-3
Q1347	C-5
Q1348	C-3
Q1349	C-3
Q1350	C-4
Q1354	B-5
Q1355	C-5
Q1359	E-5
Q1362	C-4
Q1363	D-2
Q1364	B-5
Q1365	A-5
Q1832	B-3
Q1833	A-4
Q1834	B-2
Q1835	B-2
Q1836	B-4
Q1837	E-2
Q1838	A-3
Q1839	A-3
Q1840	B-2
Q1841	C-2
Q1848	C-2
Q1849	C-2
Q1853	B-2
Q1854	C-2
Q1855	C-2
Q1856	D-2
Q1859	D-3

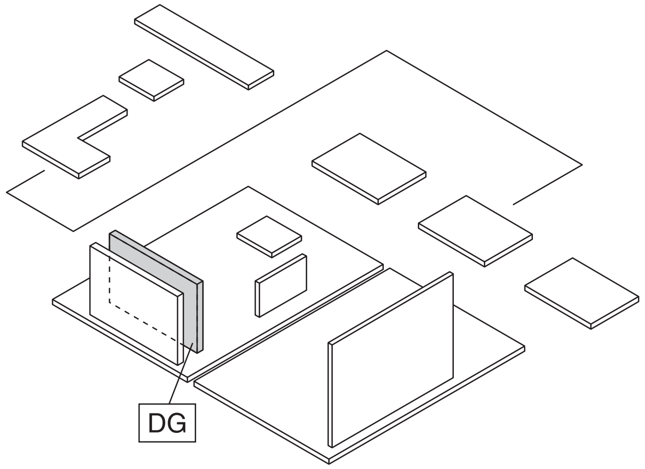
DG-Board(FOIL SIDE)
TXNDG10JBV


C1988
IC1854
IC1323
C1363
C1659
C1744
C1676
IC1550
C1682
IC1319
L1337
C1342
C1626
C1344
C1352
IC1853
C1867
IC1308
C1875
L1806
C1872
C1338
C1343
C1357
C1729
L1334
C1340
C1336
C1360
IC1342
IC1311
L1333
L1338
C1353
L1654
L1336
C1334
IC1316
C1346
C1354
C1386
C1870
L1802
C1388
C1737
C1328
L1327
IC1324
C1330
C1377
L1655
L1653
C1989
IC1312
IC1306
L1328
C1315
C1993
L1342
L1330
IC1315
C1498
C1317
L1314
C1332
C1339
C1312
C1319
C1305
C1311
C1318
L1343
C1347
L1352
IC1331
C1966
C1320
C1300
C1302
C1301
C1303
IC1333
L1309
DL1301
DL1303

DG-Board(FOIL SIDE)
TXNDG10JBV



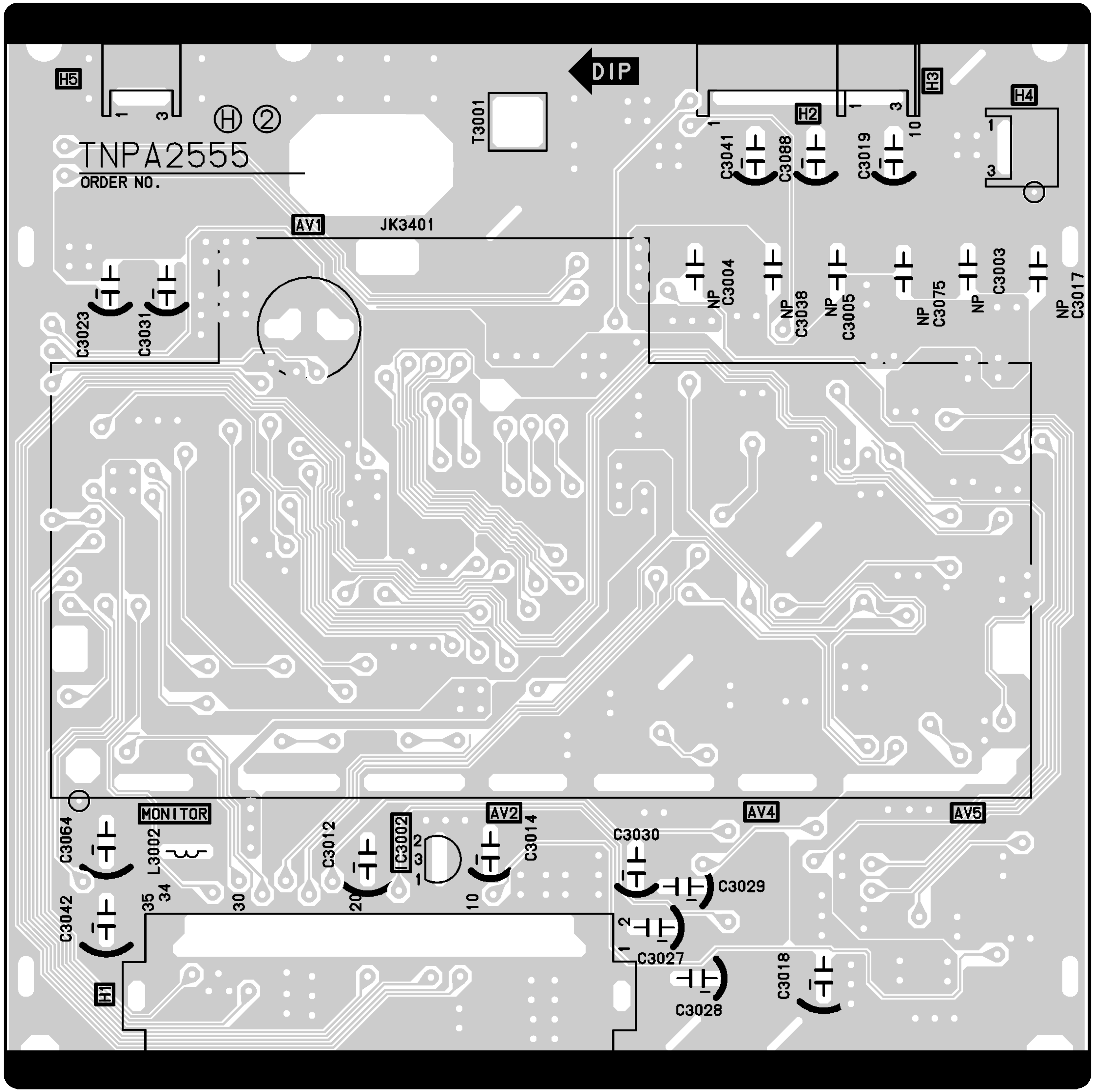
TNPA2935 ②
DG
PbF
CR NO.1
SEE REVERSE FOR ORDER NO.
JSDG081
JSDG082
NP
C988
C965
C687
R893
R894
L803
Q850
R888
R305
C932
IC854
R304
C363
R705
Q325
C659
Q326
Q857
Q831
Q322
IC351
C744
A1
D300
208
157
IC323
L363
C364
C625
IC853
R914
R918
C362
R920
C875
156
IC319
L337
C867
C352
C676
L652
C682
C344
86
IC350
C872
C626
C342
NP
C357
L806
C338
Q351
Q331
R587
R595
R953
R957
L334
C340
C336
C667
C308
IC342
52
53
105
L333
C729
C360
C700
104
C334
C563
L364
43
44
C353
C870
L654
C635
R523
R503
Q330
C338
C354
IC858
C388
NP
C737
C989
A1
L336
C316
C386
C377
D306
C1678
C330
IC324
NP
C328
IC306
L653
C677
C953
Q863
C315
Q862
C993
C309
R737
IC312
C317
C312
Q860
Q861
IC315
C305
Q842
C498
IC332
C318
R660
Q846
L353
L352
R417
L343
C606
C347
C311
C977
IC333
C374
R858
C413
Q847
L864
Q310
IC331
Q851
C320
C301
C939
Q845
Q843
R975
Q301
DL341
DL345
DL340
Q844
D303
C447
43
C449
DL312
C300
C302
D301
Q305
R356
C397
DL315
C454
DL303
DL301
C370
C303
L309
DL339
R976
C376
36 37 38 39 40 41 42
43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
C343
C588
C589
IC311
C601
C602
C604
C597
C346
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

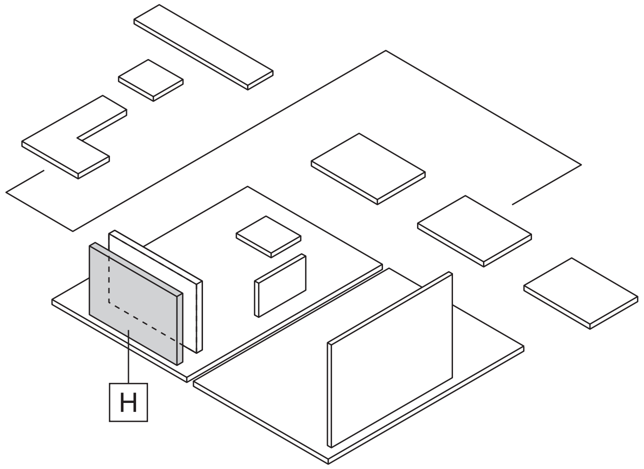


Parts Location

DG-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC1306	A-3	Q1301	D-2
IC1308	B-4	Q1305	D-2
IC1311	F-4	Q1310	A-2
IC1312	E-3	Q1322	C-5
IC1315	E-3	Q1325	D-5
IC1316	F-3	Q1326	D-5
IC1319	E-5	Q1330	E-4
IC1323	C-5	Q1331	F-4
IC1324	A-3	Q1351	F-4
IC1331	B-2	Q1358	D-3
IC1332	C-3	Q1366	E-5
IC1333	D-2	Q1368	C-3
IC1342	C-4	Q1831	A-5
IC1350	D-4	Q1842	E-2
IC1351	E-5	Q1843	F-2
IC1853	B-5	Q1844	E-2
IC1854	B-5	Q1845	E-2
IC1858	B-4	Q1846	F-2
		Q1847	E-2
		Q1850	C-6
		Q1851	E-2
		Q1852	E-3
		Q1857	E-5
		Q1858	D-3
		Q1860	B-3
		Q1861	B-3
		Q1862	B-3
		Q1863	B-3
		Q1864	B-3
		Q1865	B-3

H-Board(COMPONENT SIDE)
TXPA2555AD


H5
1
3
Ⓗ ②
TNPA2555
ORDER NO.
DIP
T3001
1
H2
1
3
10
H3
H4
1
3
C3041
C3088
C3019
AV1
JK3401
C3004
NP
C3038
NP
C3005
NP
C3075
NP
C3003
NP
C3017
C3023
C3031
MONITOR
C3064
L3002
AV2
C3012
IC3002
2
3
1
C3014
C3030
C3029
AV4
AV5
C3042
35
34
30
20
10
2
1
C3027
C3028
C3018
H1
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

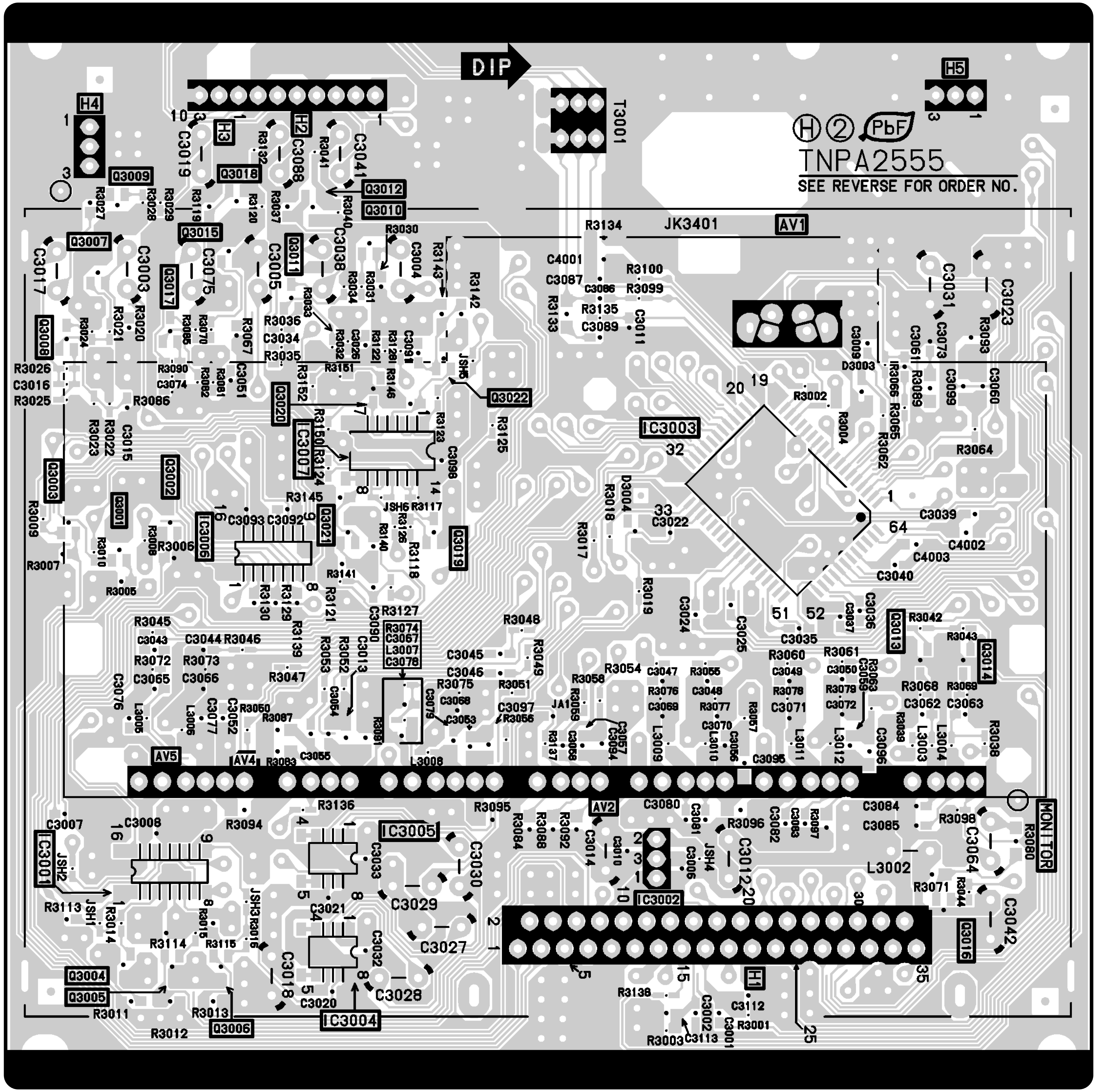


Parts Location

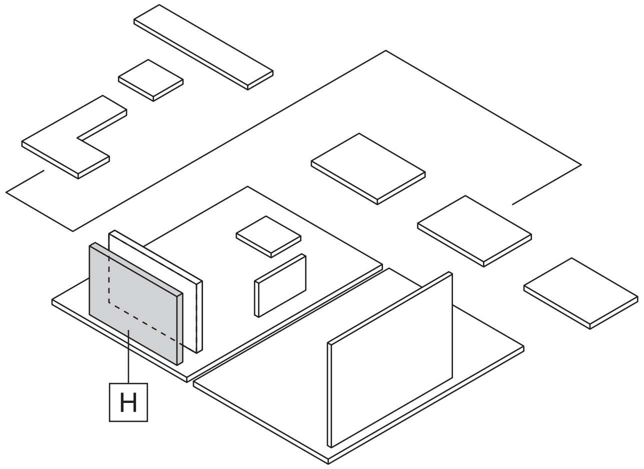
H-BOARD (COMPONENT SIDE)			
IC			
IC3002	C-2		

TX-51P800X/HM/HQ, TX-43P800X/HM/HQ/HZ
H-BOARD TXPA2555AD

H-Board(FOIL SIDE)
TXPA2555AD



DIP
T3001
H4
H5
H2
H3
H1
TNPA2555
SEE REVERSE FOR ORDER NO.
PbF
JK3401
AV1
AV2
AV4
AV5
MONITOR
IC3001
IC3002
IC3003
IC3004
IC3005
IC3006
IC3007
Q3001
Q3002
Q3003
Q3004
Q3005
Q3006
Q3007
Q3008
Q3009
Q3010
Q3011
Q3012
Q3013
Q3014
Q3015
Q3016
Q3017
Q3018
Q3019
Q3020
Q3021
Q3022
C3003
C3005
C3017
C3019
C3023
C3027
C3028
C3029
C3030
C3031
C3041
C3042
C3064
C3075
C3088
L3002
JSH1
JSH2
JSH3
JSH4
JSH5
JSH6
D3003
D3004



Parts Location

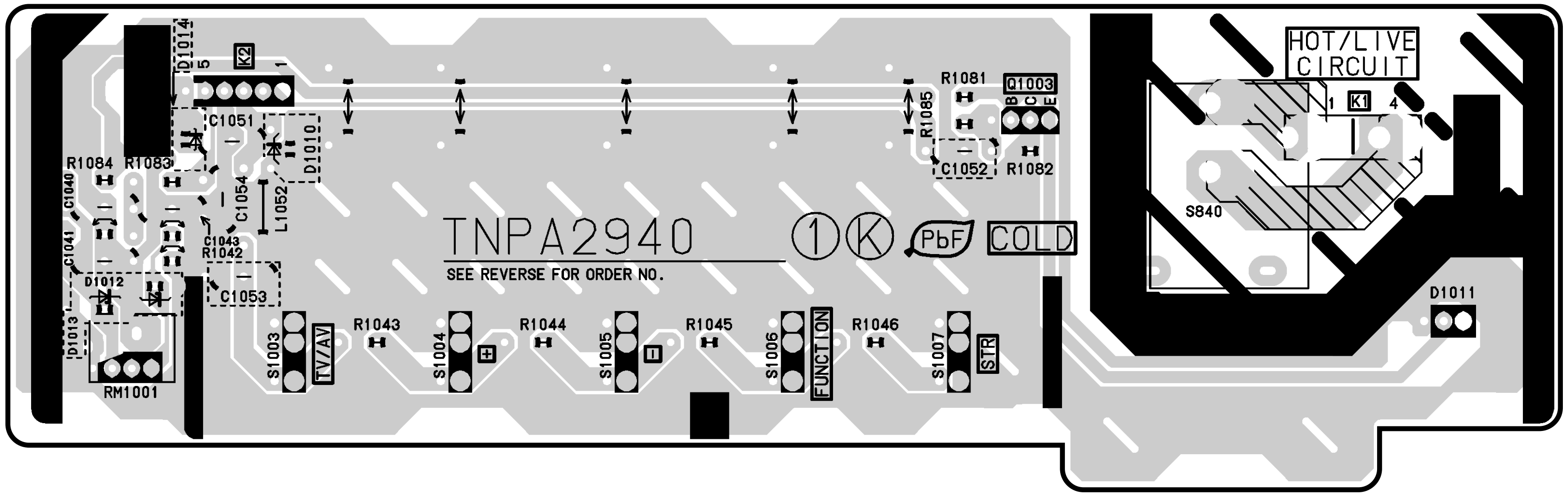
H-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC3001	B-2	Q3001	A-4
IC3002	D-2	Q3002	B-4
IC3003	E-4	Q3003	A-4
IC3004	C-1	Q3004	B-1
IC3005	C-2	Q3005	B-1
IC3006	B-3	Q3006	B-1
IC3007	C-4	Q3007	A-5
		Q3008	A-4
		Q3009	A-5
		Q3010	B-5
		Q3011	B-5
		Q3012	B-5
		Q3013	E-3
		Q3014	F-3
		Q3015	B-5
		Q3016	F-2
		Q3017	B-5
		Q3018	B-5
		Q3019	C-4
		Q3020	B-4
		Q3021	B-4
		Q3022	C-4

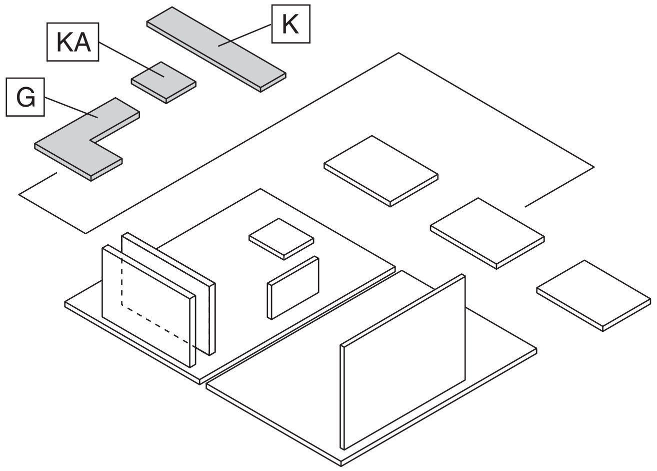
6
5
4
3
2
1

A B C D E F G H I

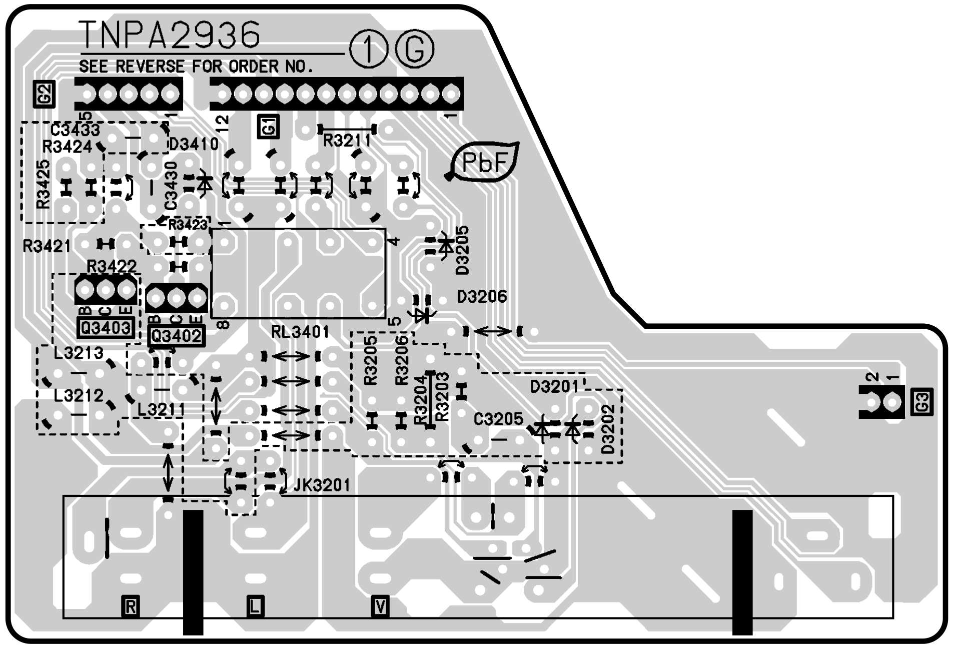
6 5 4 3 2 1

K-Board
TNPA2940

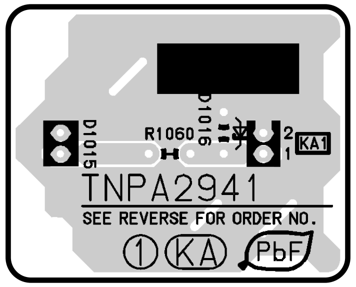

TNPA2940
SEE REVERSE FOR ORDER NO.
① K
PbF
COLD
HOT/LIVE CIRCUIT
K1
K2
S840
D1014
C1051
D1010
R1084
R1083
C1040
C1041
C1054
L1052
C1043
R1042
D1012
C1053
D1013
RM1001
R1081
Q1003
B C E
R1085
C1052
R1082
D1011
S1003
TV/AV
R1043
S1004
R1044
S1005
R1045
S1006
FUNCTION
R1046
S1007
STR



G-Board
TNPA2936


TNPA2936
SEE REVERSE FOR ORDER NO.
① G
PbF
G2
G1
G3
C3433
R3424
D3410
R3211
R3425
C3430
R3423
R3421
R3422
D3205
D3206
Q3403
Q3402
B C E
RL3401
R3205
R3206
R3204
R3203
D3201
D3202
C3205
L3213
L3212
L3211
JK3201
R
L
V

KA-Board
TNPA2940


TNPA2941
SEE REVERSE FOR ORDER NO.
① KA
PbF
D1015
D1016
R1060
KA1

Parts Location

K-BOARD	
TRANSISTOR	
Q1003	E-5

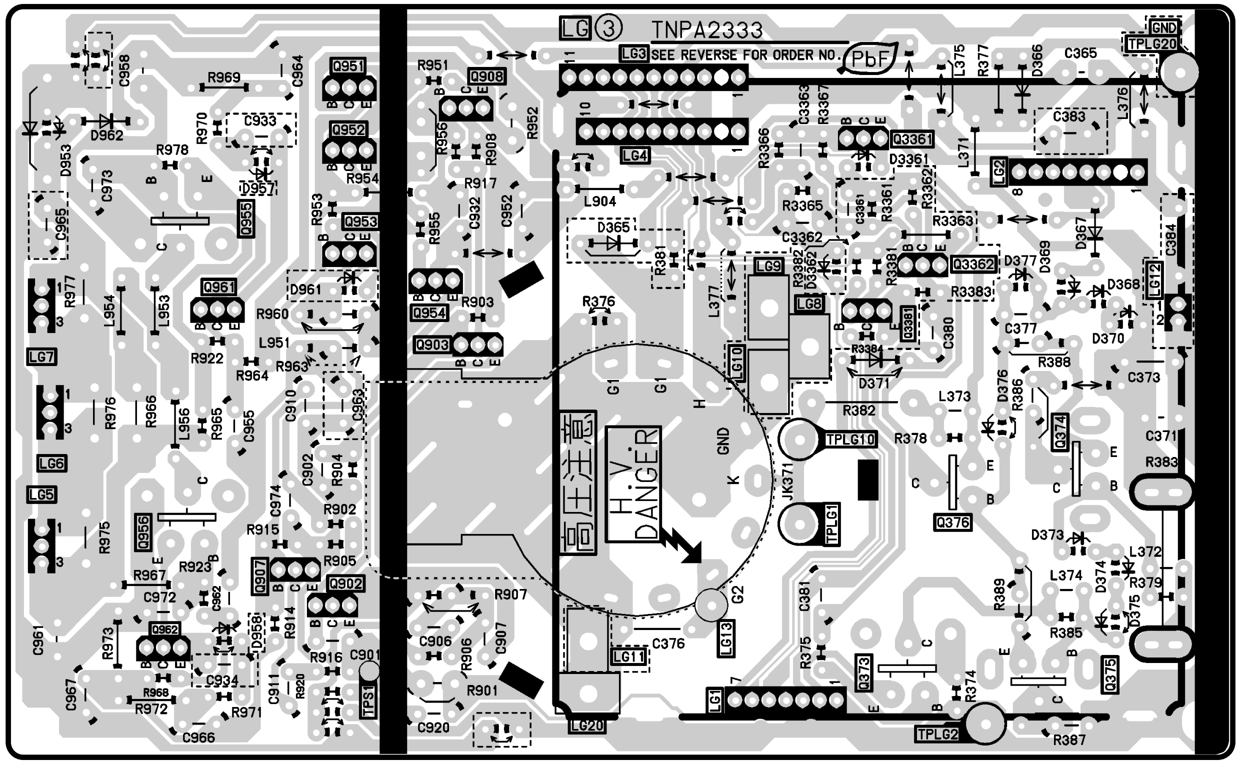
Parts Location

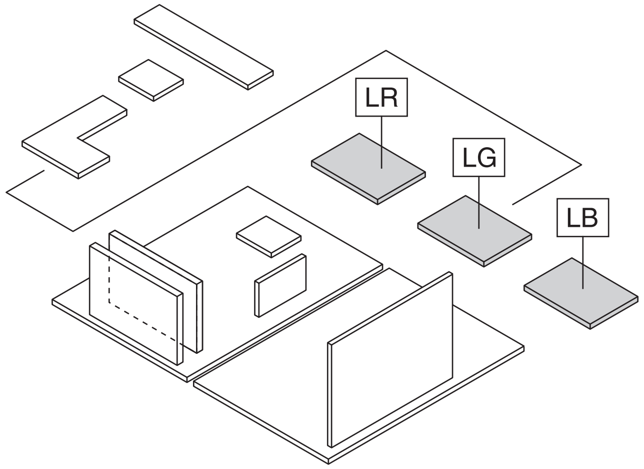
G-BOARD	
TRANSISTOR	
Q3402 Q3403	B-2 B-2

A B C D E F G H I

6
5
4
3
2
1

LG-Board
TNPA2333AF(51inch Series)
TNPA2333AG(43inch Series)

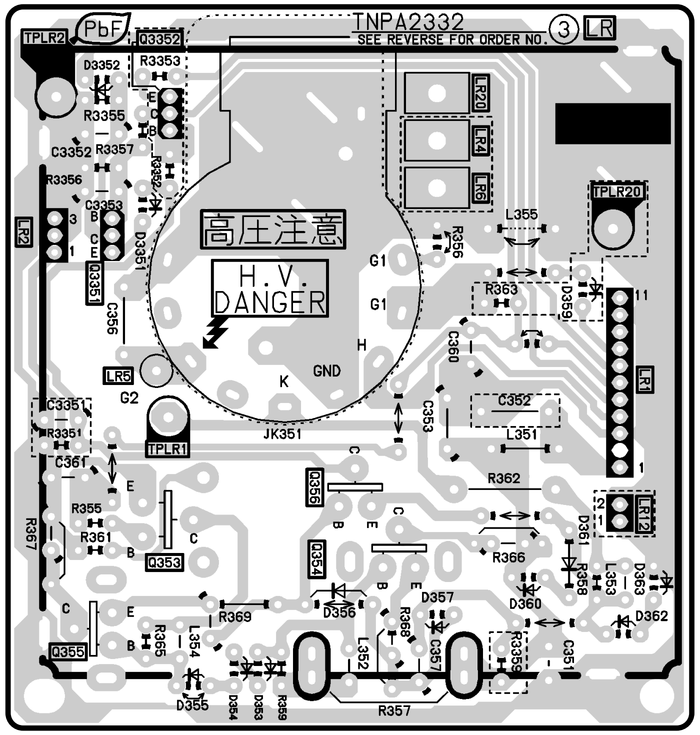

LG③
TNPA2333
SEE REVERSE FOR ORDER NO.
PbF
GND
TPLG20
高圧注意
H.V. DANGER
TPLG10
TPLG1
TPLG2
TPS1
JK371
G1
G2
H
K
GND
LG1
LG3
LG4
LG5
LG6
LG7
LG8
LG9
LG10
LG11
LG12
LG13
LG20
Q951
Q952
Q953
Q954
Q955
Q956
Q961
Q962
Q902
Q903
Q907
Q908
Q373
Q374
Q375
Q376
Q3361
Q3362
Q3381



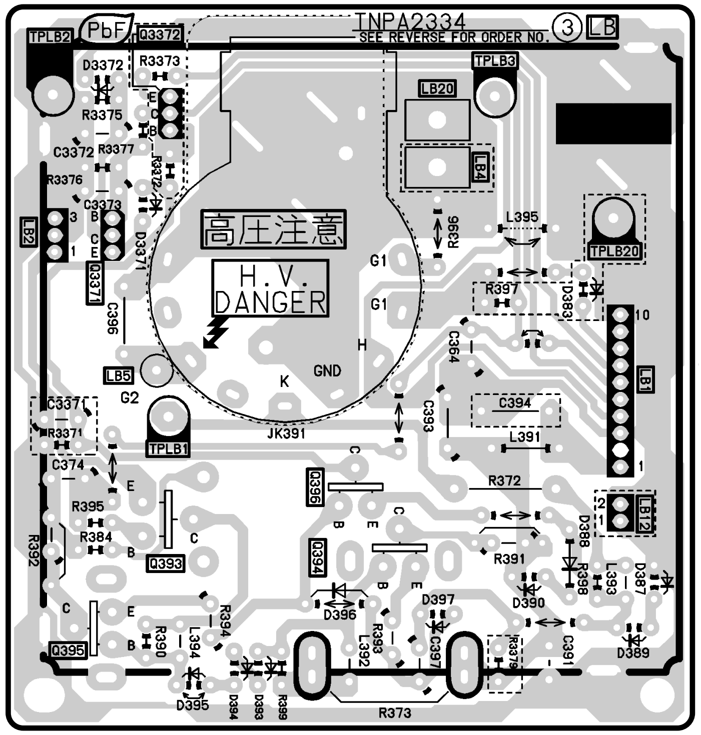
Parts Location

LG-BOARD			
TRANSISTOR		TP	
Q373	D-4	TPLG1	D-4
Q374	E-5	TPLG2	D-4
Q375	E-4	TPLG10	D-5
Q376	D-5	TPLG20	E-6
Q902	B-4	TPS1	B-4
Q903	C-5		
Q907	B-4		
Q908	C-6		
Q951	B-6		
Q952	B-6		
Q953	B-5		
Q954	C-5		
Q955	B-5		
Q956	B-4		
Q961	B-5		
Q962	B-4		
Q3361	D-6		
Q3362	D-5		
Q3381	D-5		

LR-Board
TNPA2332AF(51inch Series)
TNPA2332AG(43inch Series)


TNPA2332
SEE REVERSE FOR ORDER NO.
③ LR
PbF
TPLR2
TPLR20
TPLR1
高圧注意
H.V. DANGER
G1
G2
H
K
GND
JK351
LR1
LR2
LR4
LR5
LR6
LR12
LR20
Q353
Q354
Q355
Q356
Q3351
Q3352

LB-Board
TNPA2334AF(51inch Series)
TNPA2334AG(43inch Series)


TNPA2334
SEE REVERSE FOR ORDER NO.
③ LB
PbF
TPLB2
TPLB3
TPLB20
TPLB1
高圧注意
H.V. DANGER
G1
G2
H
K
GND
JK391
LB1
LB2
LB4
LB5
LB12
LB20
Q393
Q394
Q395
Q396
Q3371
Q3372

Parts Location

LR-BOARD			
TRANSISTOR		TP	
Q353	B-1	TPLR1	B-2
Q354	C-1	TPLR2	A-3
Q355	B-1	TPLR20	C-2
Q356	B-2		
Q3351	B-2		
Q3352	B-3		

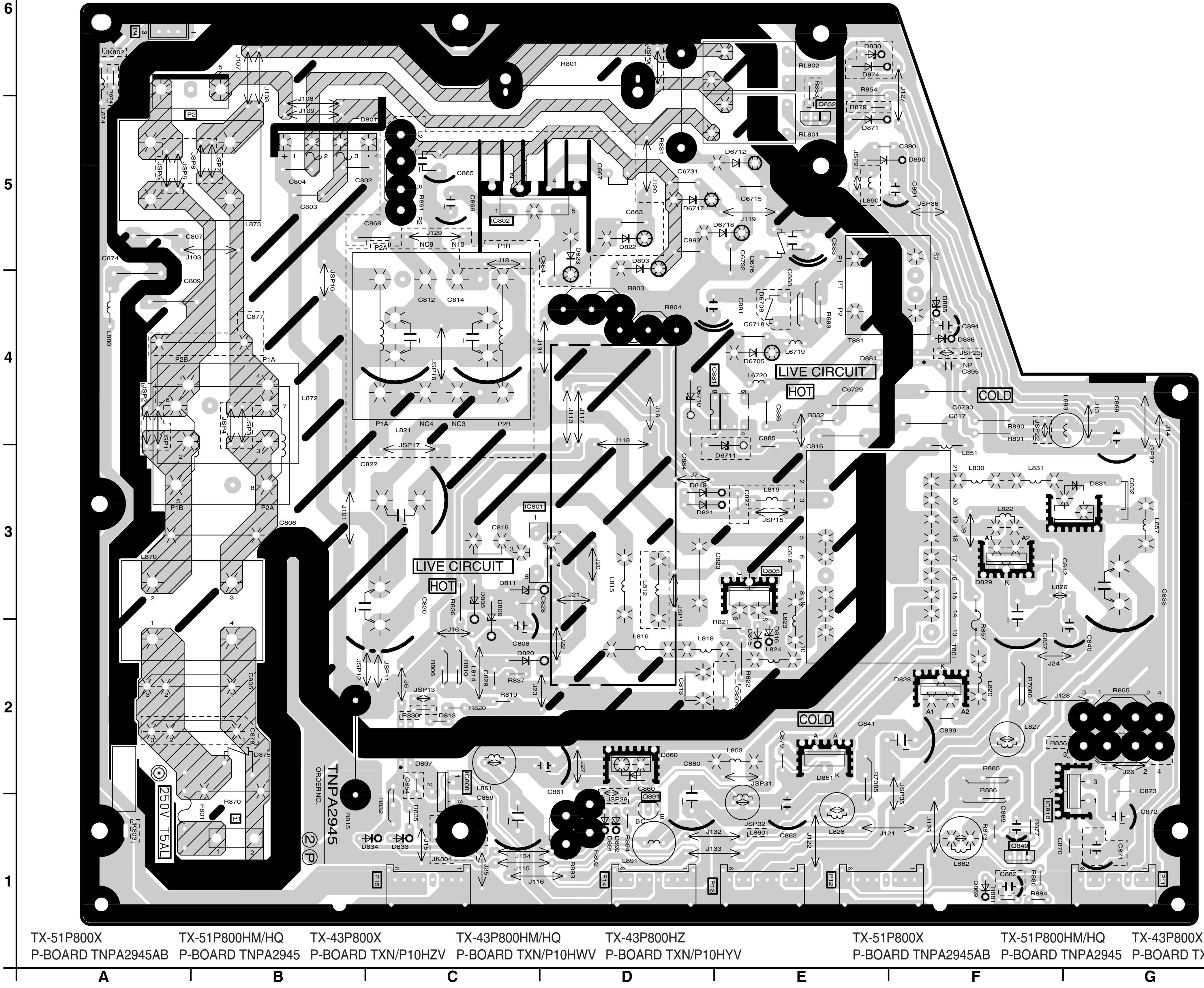
Parts Location

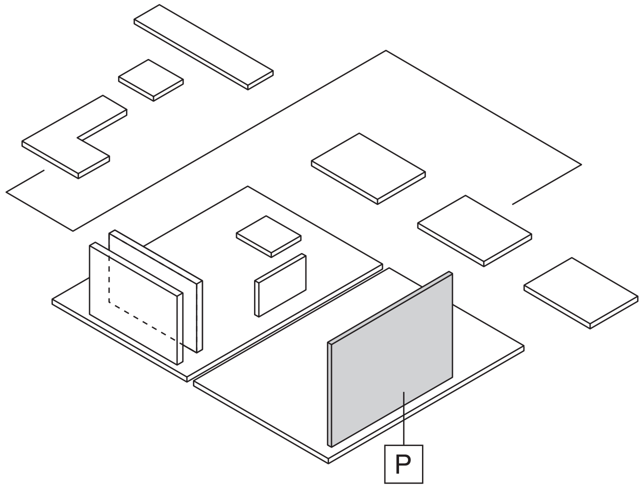
LB-BOARD			
TRANSISTOR		TP	
Q393	D-1	TPLB1	D-2
Q394	E-1	TPLB2	D-3
Q395	D-1	TPLB3	E-3
Q396	E-2	TPLB20	F-2
Q3371	D-2		
Q3372	D-3		

TX-51P800X/HM/HQ LG-BOARD TNPA2333AF LR-BOARD TNPA2332AF LB-BOARD TNPA2334AF
TX-43P800X/HM/HQ/HZ LG-BOARD TNPA2333AG LR-BOARD TNPA2332AG LB-BOARD TNPA2334AG

A B C D E F G H I

P-Board(COMPONENT SIDE)
TNPA2945AB(TX-51P800X) TNPA2945(TX-51P800HM/HQ)
TXN/P10HZV(TX-43P800X) TXN/P10HWV(TX-43P800HM/HQ) TXN/P10HYV(TX-43P800HZ)


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
LIVE CIRCUIT
HOT
COLD
LIVE CIRCUIT
HOT
COLD
TNPA2945
ORDERNO.
250V T5AL
IC801
IC802
IC808
IC810
IC881
Q805
Q849
Q852
Q891
RL801
RL802
T881
T801
F801
P2
P11
P12
P13
P14
P15
JK802
JK803
JK804



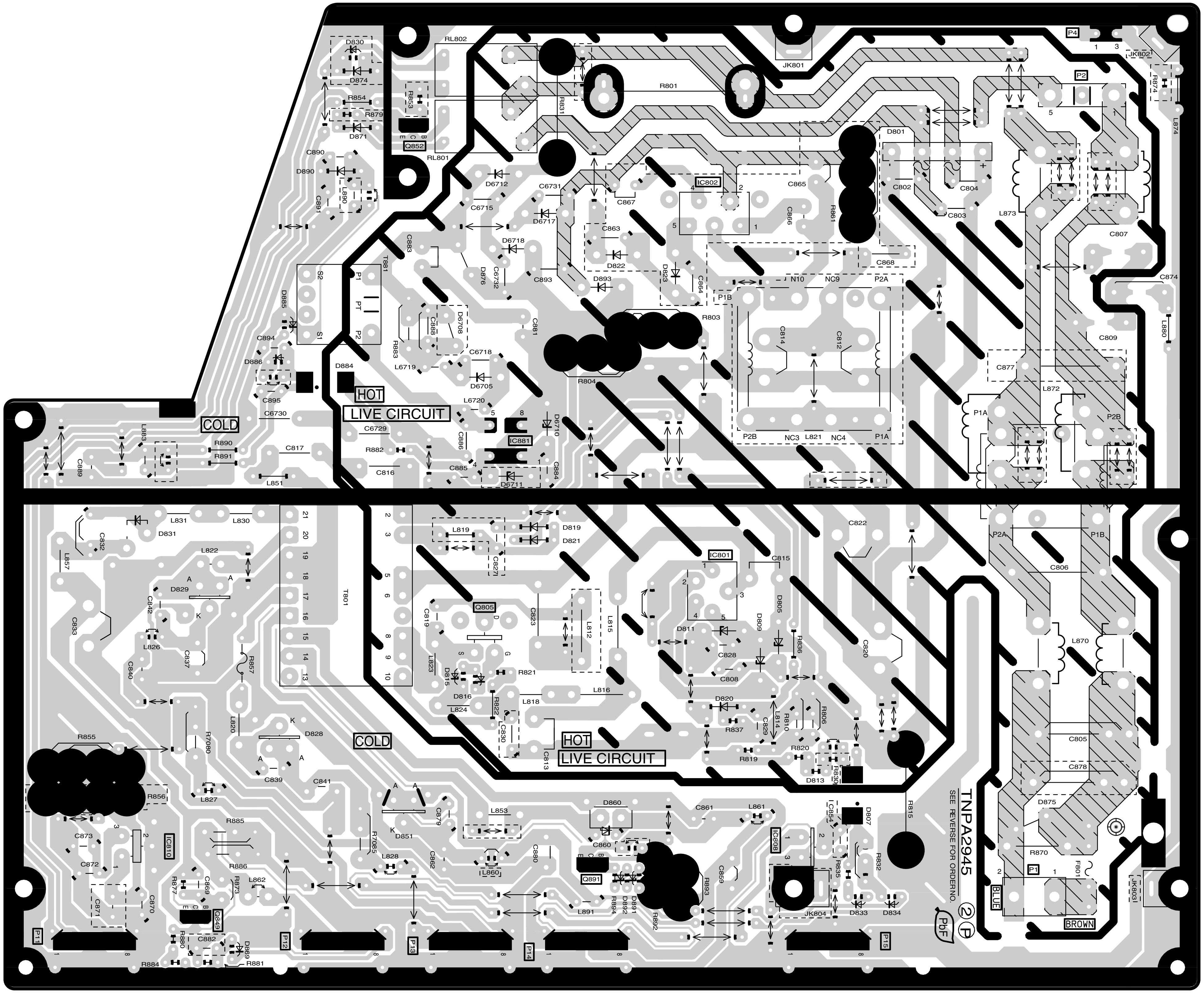
Parts Location

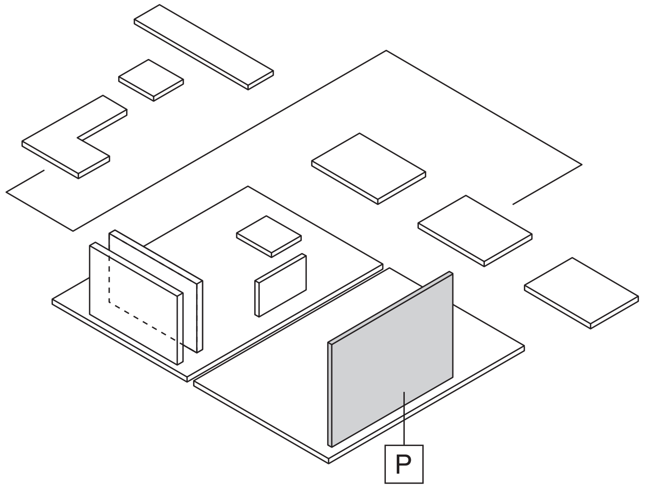
P-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC801	C-3	Q805	E-3
IC802	C-5	Q849	F-1
IC808	C-2	Q852	E-5
IC810	G-2	Q891	D-1
IC881	E-4		

TX-51P800X	TX-51P800HM/HQ	TX-43P800X	TX-43P800HM/HQ	TX-43P800HZ
P-BOARD TNPA2945AB	P-BOARD TNPA2945	P-BOARD TXN/P10HZV	P-BOARD TXN/P10HWV	P-BOARD TXN/P10HYV

TX-51P800X	TX-51P800HM/HQ	TX-43P800X	TX-43P800HM/HQ	TX-43P800HZ
P-BOARD TNPA2945AB	P-BOARD TNPA2945	P-BOARD TXN/P10HZV	P-BOARD TXN/P10HWV	P-BOARD TXN/P10HYV

P-Board(FOIL SIDE)
TNPA2945AB(TX-51P800X) TNPA2945(TX-51P800HM/HQ)
TXN/P10HZV(TX-43P800X) TXN/P10HWV(TX-43P800HM/HQ) TXN/P10HYV(TX-43P800HZ)


HOT
LIVE CIRCUIT
COLD
COLD
HOT
LIVE CIRCUIT
TNPA2945
SEE REVERSE FOR ORDERNO.
PbF
BLUE
BROWN
IC801
IC802
IC808
IC810
IC881
Q805
Q849
Q852
Q891
T801
RL801
RL802
JK801
JK802
JK803
JK804
F801
P1
P2
P4
P11
P12
P13
P14
P15



Parts Location

P-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC801	E-3	Q805	C-3
IC802	E-5	Q849	B-1
IC808	E-2	Q852	C-5
IC810	B-2	Q891	D-1
IC881	D-4		

TX-51P800X
P-BOARD TNPA2945AB

TX-51P800HM/HQ
P-BOARD TNPA2945

TX-43P800X
P-BOARD TXN/P10HZV

TX-43P800HM/HQ
P-BOARD TXN/P10HWV

TX-43P800HZ
P-BOARD TXN/P10HYV

TX-51P800X
P-BOARD TNPA2945AB

TX-51P800HM/HQ
P-BOARD TNPA2945

TX-43P800X
P-BOARD TXN/P10HZV

TX-43P800HM/HQ
P-BOARD TXN/P10HWV

TX-43P800HZ
P-BOARD TXN/P10HYV

A
B
C
D
E
F
G
H
I
1
2
3
4
5
6

6

5

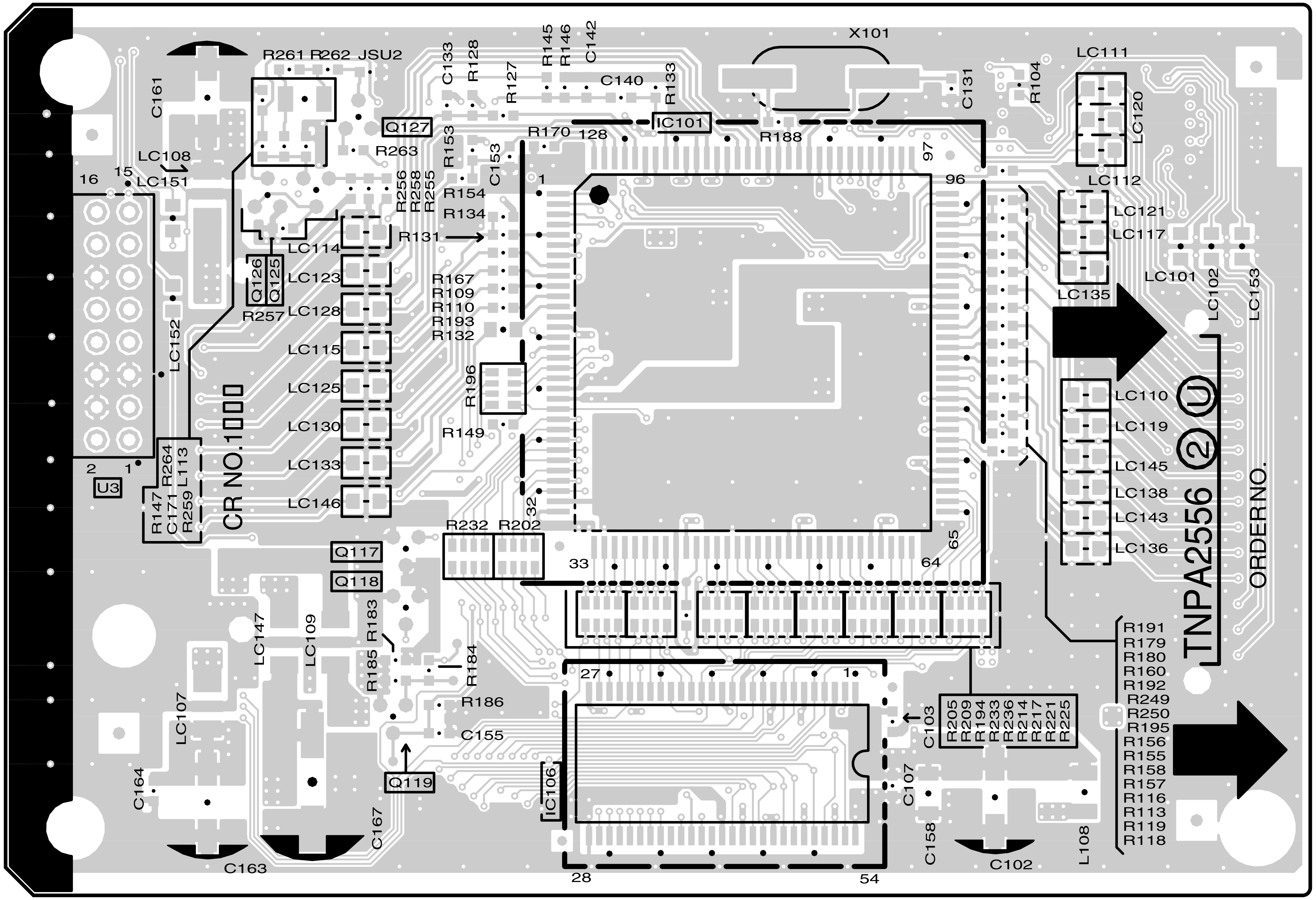
4

3

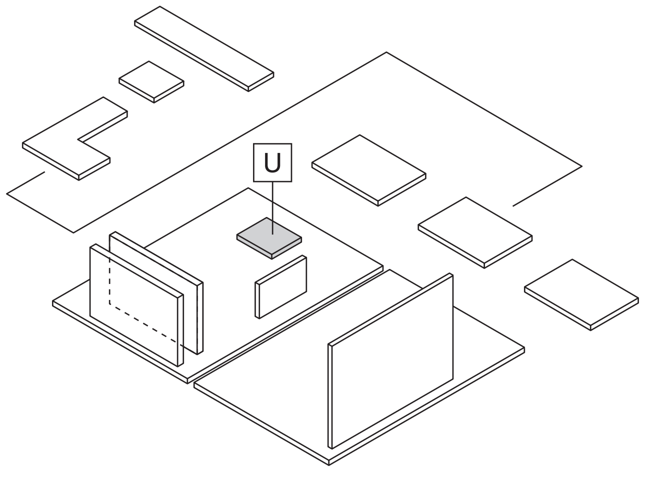
2

1

U-Board(COMPONENT SIDE)
TZTNP010JBV(51inch Series)
TZTNP030HWV(43inch Series)



X101
R261 R262 JSU2
C133
R128
R127
R145
R146
C142
C140
R133
C131
R104
LC111
LC120
C161
Q127
R170
128
IC101
R188
97
96
R263
R153
C153
1
LC108
15
16
LC151
R256
R258
R255
R154
R134
R131
LC112
LC121
LC117
LC114
LC123
Q126
Q125
R257
LC128
R167
R109
R110
R193
R132
LC135
LC101
LC102
LC153
LC115
LC125
LC130
LC133
LC146
LC152
R196
R149
CR NO.1000
LC110
LC119
LC145
LC138
LC143
LC136
TNPA2556 ② Ⓤ
ORDER NO.
2
1
U3
R264
L113
R147
C171
R259
32
R232
R202
33
64
65
Q117
Q118
R183
R184
R185
LC147
LC109
R191
R179
R180
R160
R192
R249
R250
R195
R156
R155
R158
R157
R116
R113
R119
R118
27
1
R186
C155
LC107
C103
R205
R209
R194
R233
R236
R214
R217
R221
R225
Q119
IC106
C107
C164
C167
C158
L108
C163
C102
28
54



Parts Location

U-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC1101	E-4	Q1117	C-3
IC1106	D-2	Q1118	C-3
		Q1119	C-2
		Q1125	B-5
		Q1126	B-5
		Q1127	C-5

A B C D E F G H I

6

5

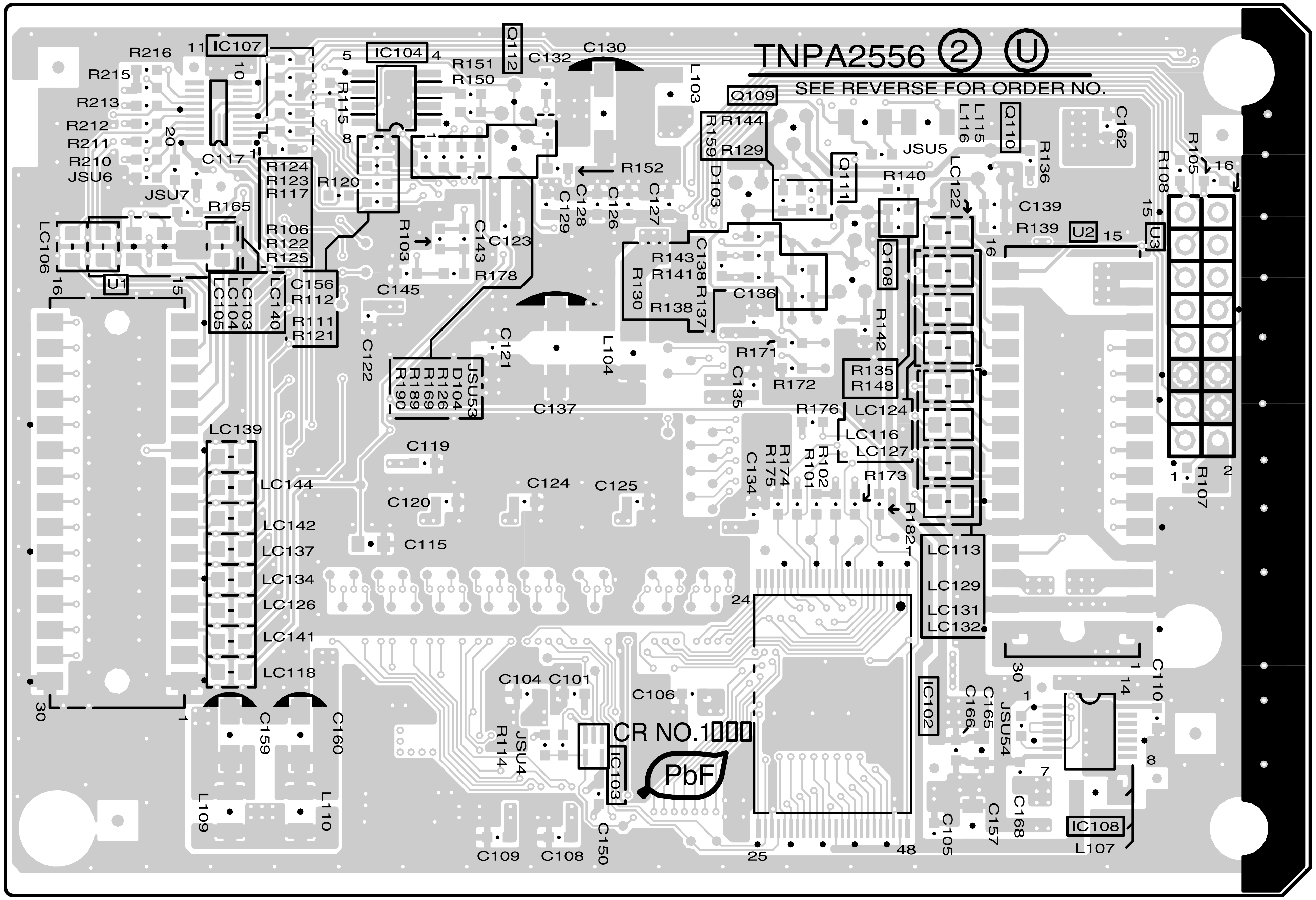
4

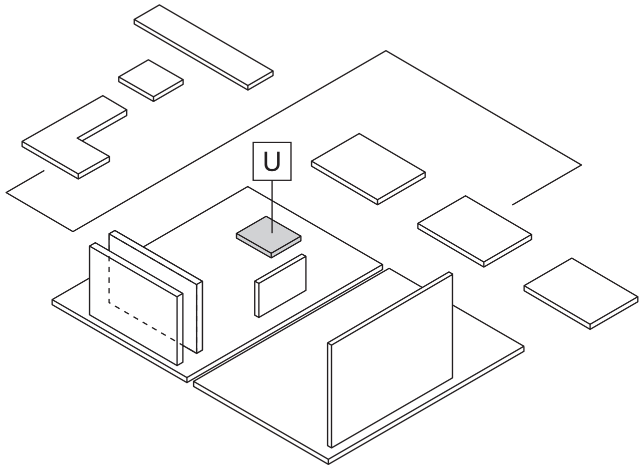
3

2

1

U-Board(FOIL SIDE)
TZTNP010JBV(51inch Series)
TZTNP030HWV(43inch Series)

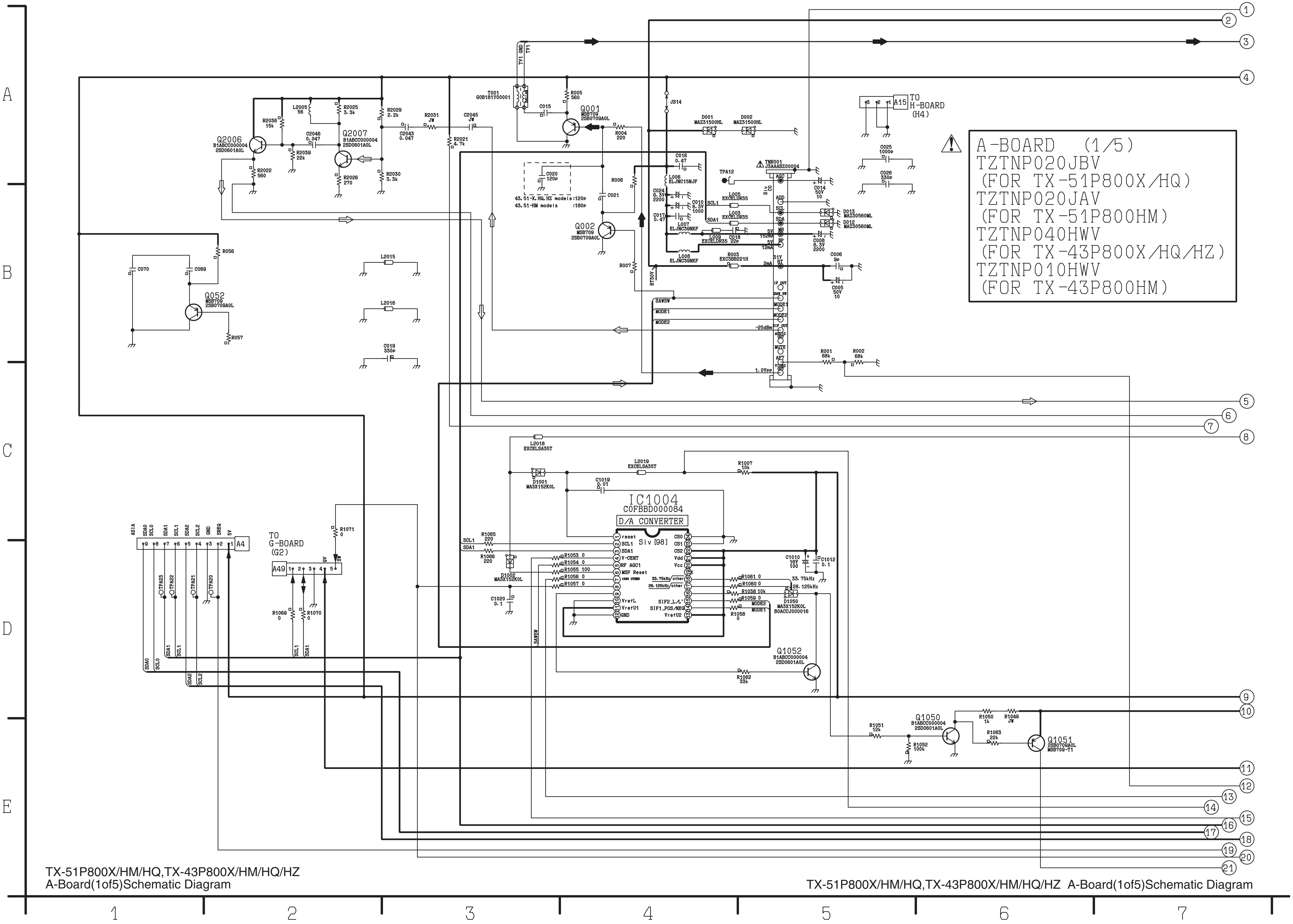

TNPA2556 ② Ⓤ
SEE REVERSE FOR ORDER NO.
IC107
IC104
Q112
C130
C132
L103
Q109
R144
R129
R159
D103
Q110
C162
L115
L116
R136
JSU5
Q111
R140
R105
R108
16
R216
R215
R213
R212
R211
R210
JSU6
JSU7
C117
R124
R123
R117
R120
R151
R150
R115
R152
C129
C128
C126
C127
LC122
C139
R139
U2
U3
15
LC106
R165
R106
R122
R125
R103
C143
C123
R143
R141
R130
R138
C138
R137
C136
Q108
U1
LC103
LC104
LC105
LC140
C156
R112
R111
R121
C145
R178
R142
C122
C121
L104
R171
R135
R148
JSU53
D104
R126
R169
R189
R190
C135
R172
C137
R176
LC124
LC116
LC127
LC139
C119
R174
R175
R101
R102
C134
R173
LC144
C124
C125
C120
R182
LC142
LC137
C115
LC113
LC134
LC129
LC126
24
LC131
LC132
LC141
LC118
C104
C101
C106
C110
IC102
C166
C165
JSU54
30
C159
C160
R114
JSU4
CR NO.1
IC103
PbF
L109
L110
C109
C108
C150
25
48
C105
C157
C168
IC108
L107
R107
1
2
7
8
14



Parts Location

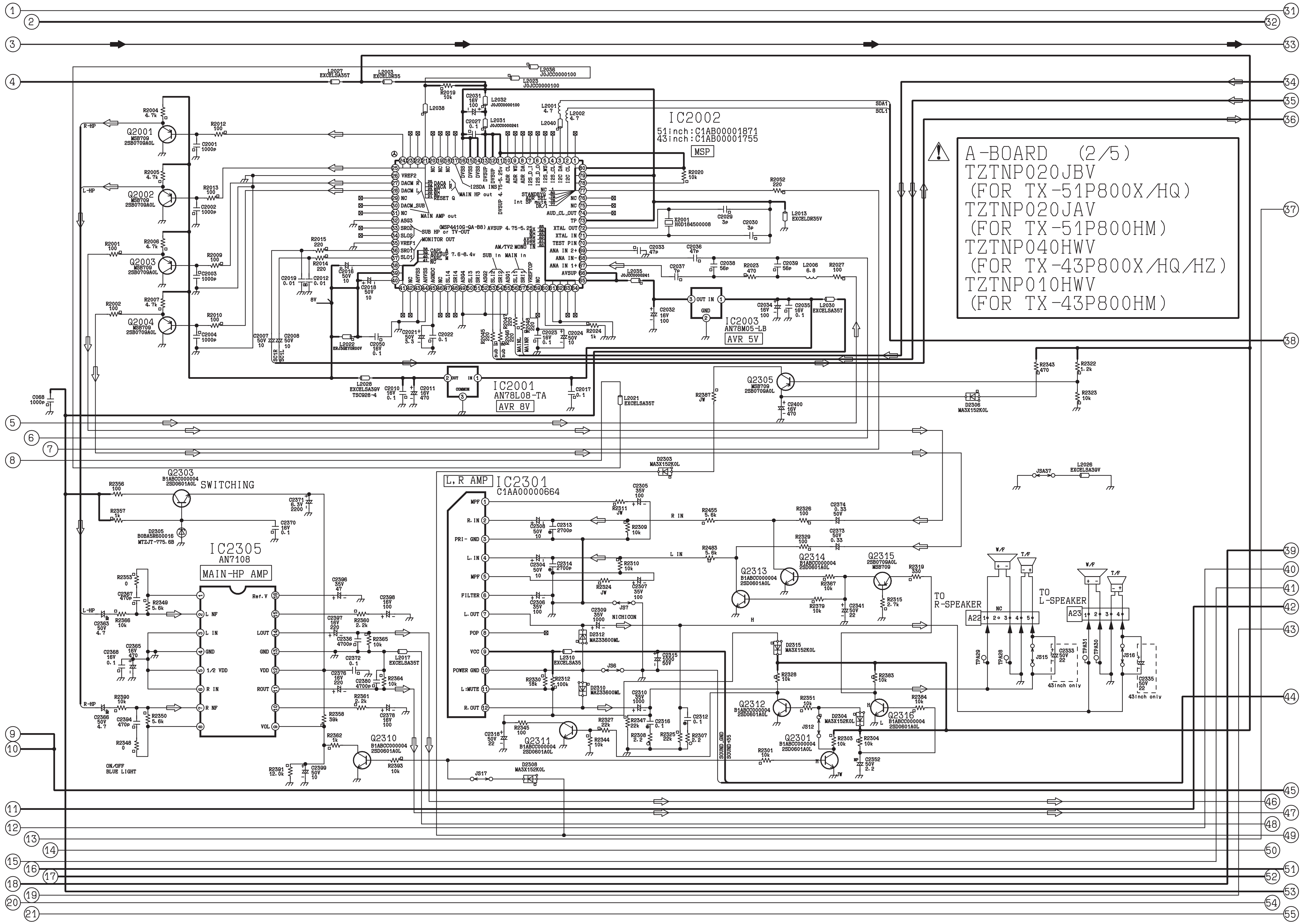
U-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC1102	E-2	Q1108	E-4
IC1103	D-2	Q1109	E-5
IC1104	C-5	Q1110	F-5
IC1107	B-5	Q1111	E-5
IC1108	F-2	Q1112	C-5

A B C D E F G H I


A-BOARD (1/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)
IC1004
C0FBBD000084
D/A CONVERTER
TNR001
J3AAABZ00004
T001
G0B181Y00001
Q001
MSB709
2SB0709A0L
Q002
MSB709
2SB0709A0L
Q2006
B1ABCC000004
2SD0601A0L
Q2007
B1ABCC000004
2SD0601A0L
Q052
MSB709
2SB0709A0L
Q1050
B1ABCC000004
2SD0601A0L
Q1051
2SB0709A0L
MSB709-T1
Q1052
B1ABCC000004
2SD0601A0L
D001
MAZ31500HL
D002
MAZ31500HL
D013
MAZ30560ML
D012
MAZ30560ML
D1001
MA3X152K0L
D1002
MA3X152K0L
D1050
MA3X152K0L
B0ACCJ000016
43.51-X,HQ,HZ models:120p
43.51-HM models :180p
TO
H-BOARD
(H4)
A15
TO
G-BOARD
(G2)
A49
A4
SDA1
SCL1
MODE1
MODE2
SAWSW
1.0Vpp
-25dBm
L2018
EXCELSA35T
L2019
EXCELSA35T
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
A
B
C
D
E
1
2
3
4
5
6
7

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
A-Board(1of5)Schematic Diagram

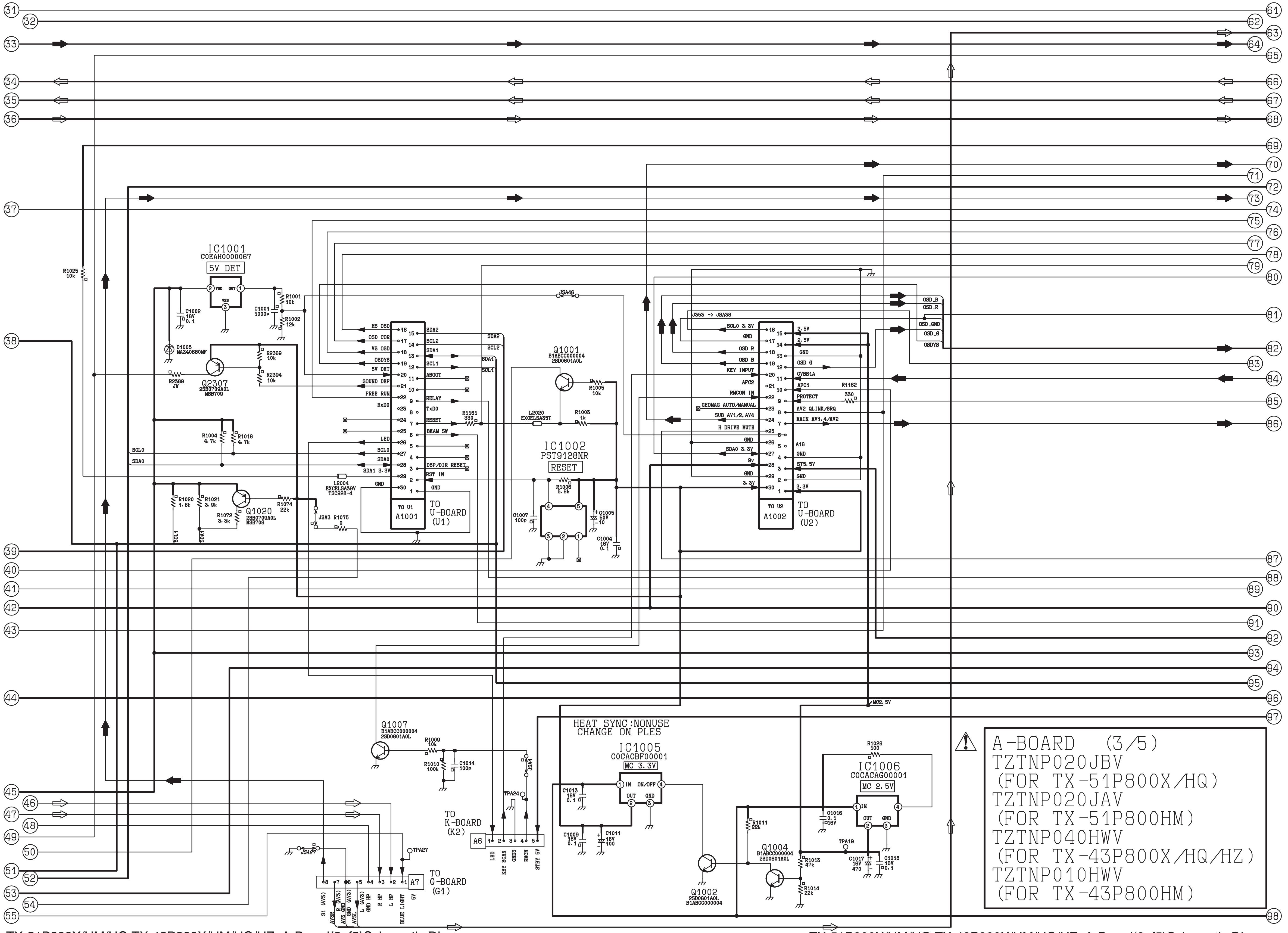
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(1of5)Schematic Diagram


A-BOARD (2/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)
IC2002
51inch:C1AB00001871
43inch:C1AB00001755
MSP
IC2001
AN78L08-TA
AVR 8V
IC2003
AN78M05-LB
AVR 5V
IC2301
C1AA00000664
L,R AMP
IC2305
AN7108
MAIN-HP AMP
Q2303
SWITCHING
Q2001
Q2002
Q2003
Q2004
Q2305
Q2310
Q2311
Q2312
Q2313
Q2314
Q2315
Q2316
Q2301
TO
R-SPEAKER
TO
L-SPEAKER
A22
A23
43inch only
ON/OFF
BLUE LIGHT
NICHICON
R-HP
L-HP
R IN
L IN
SOUND GND
SOUND+35

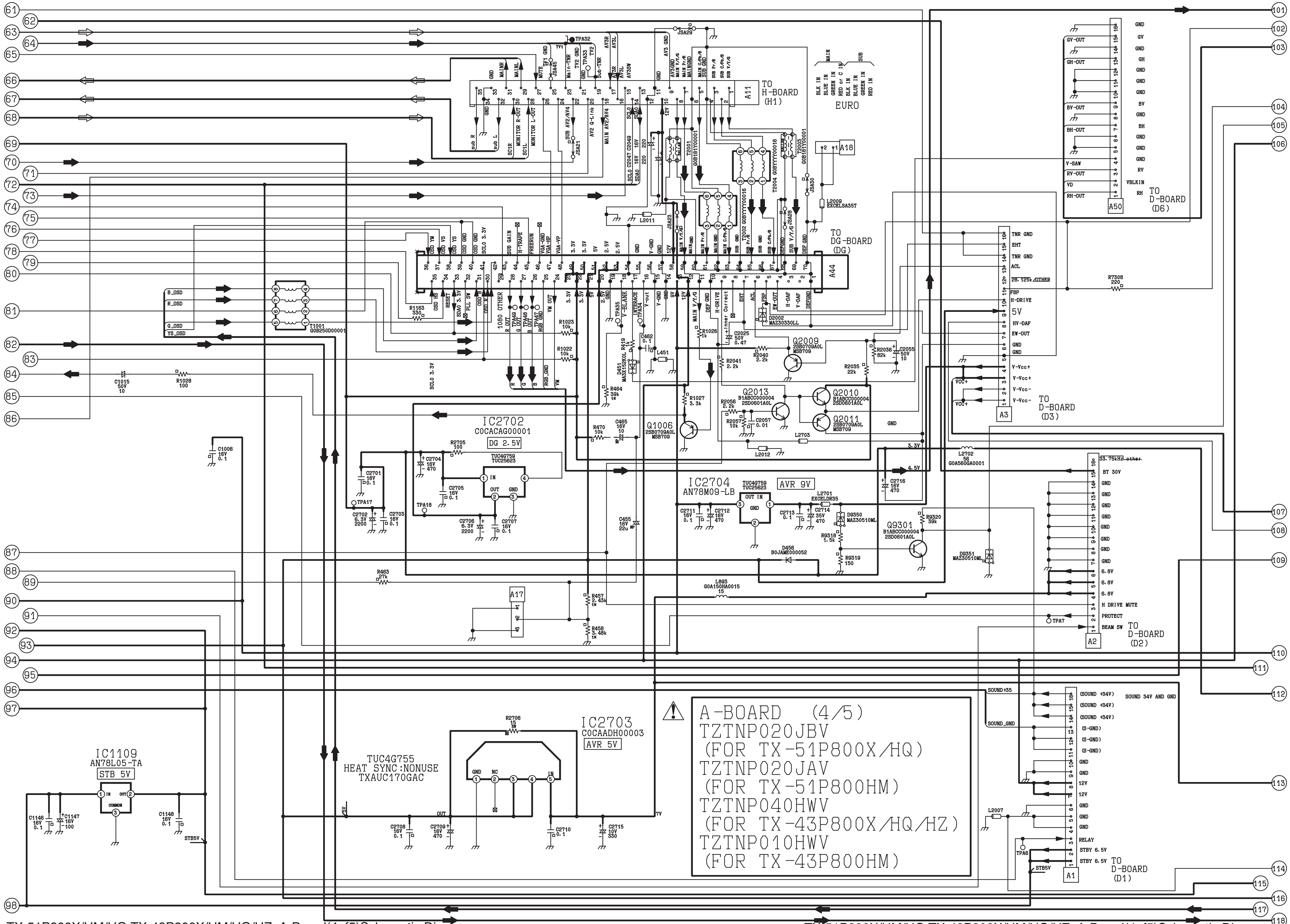
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(2of5)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(2of5)Schematic Diagram

8 9 10 11 12 13 14


IC1001
C0EAH0000067
5V DET
IC1002
PST9128NR
RESET
IC1005
C0CACBF00001
MC 3.3V
IC1006
C0CACAG00001
MC 2.5V
HEAT SYNC:NONUSE
CHANGE ON PLES
Q1001
B1ABCC000004
2SD0601A0L
Q1007
B1ABCC000004
2SD0601A0L
Q1002
2SD0601A0L
B1ABCC000004
Q1004
B1ABCC000004
2SD0601A0L
Q2307
2SB0709A0L
MSB709
Q1020
2SB0709A0L
MSB709
D1005
MAZ40680MF
L2004
EXCELSA39V
TSC928-4
L2020
EXCELSA35T
A1001
TO U-BOARD (U1)
A1002
TO U-BOARD (U2)
TO K-BOARD (K2)
A6
TO G-BOARD (G1)
A7
OSD_B
OSD_R
OSD_GND
OSD_G
OSDYS
J353 -> JSA38
JSA46
JSA3
JSA4
JSA27
TPA24
TPA27
TPA19
MC2.5V

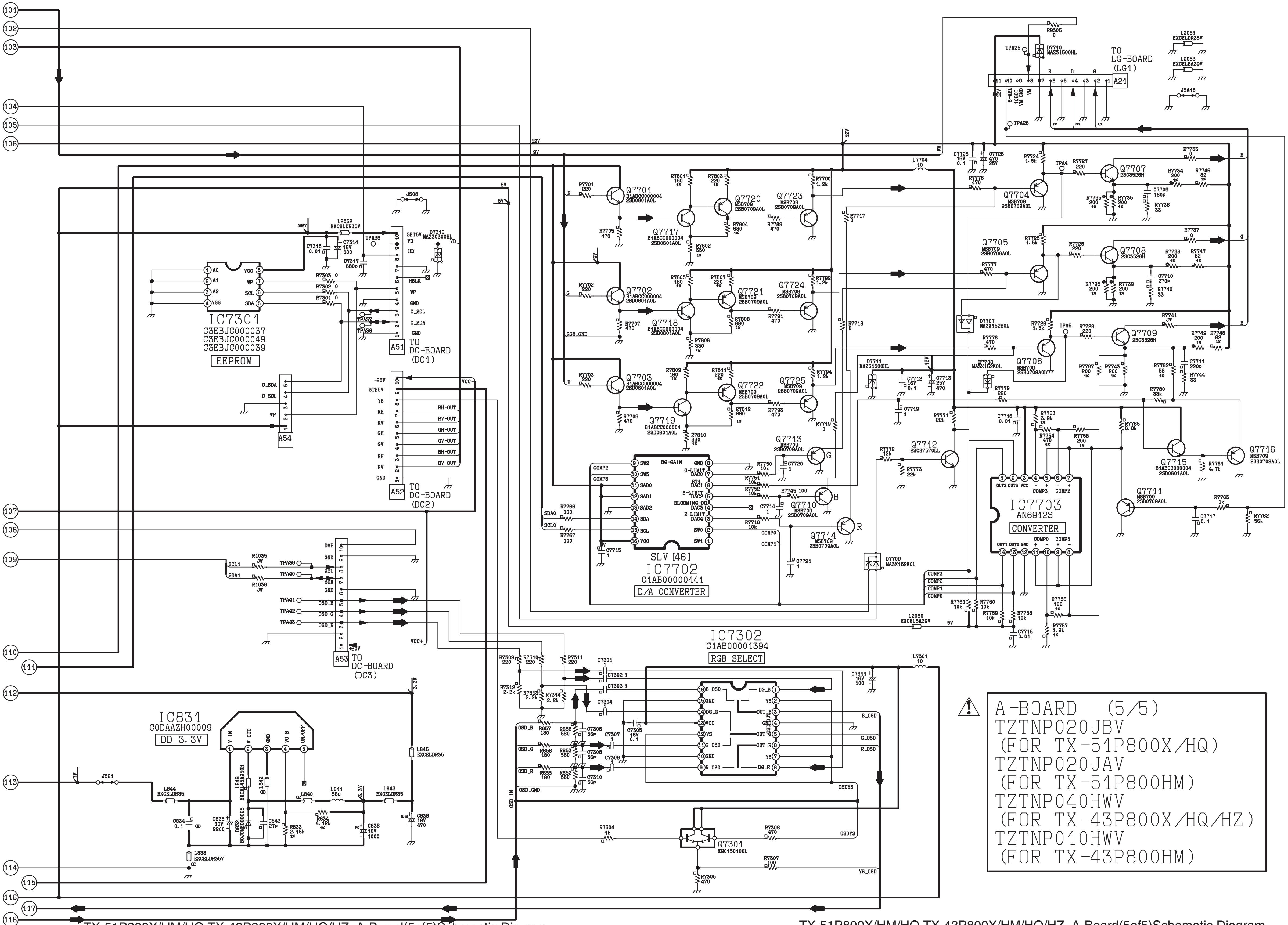
A-BOARD (3/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)


IC2702
C0CACAG00001
DG 2.5V
TUC4G759
TUC25623
IC2704
AN78M09-LB
AVR 9V
IC2703
C0CAADH00003
AVR 5V
IC1109
AN78L05-TA
STB 5V
TUC4G755
HEAT SYNC:NONUSE
TXAUC170GAC
Q1006
2SB0709A0L
MSB709
Q2009
2SB0709A0L
MSB709
Q2013
B1ABCC000004
2SD0601A0L
Q2010
B1ABCC000004
2SD0601A0L
Q2011
2SB0709A0L
MSB709
Q9301
B1ABCC000004
2SD0601A0L
T1001
G0B250D00001
T2001
G0B181Y00001
T2002
G0BYYY00016
T2003
G0B181Y00001
T2004
G0BYYY00016
A11
TO
H-BOARD
(H1)
A44
TO
DG-BOARD
(DG)
EURO
MAIN
SUB
A18
A17
A50
TO
D-BOARD
(D6)
A3
TO
D-BOARD
(D3)
A2
TO
D-BOARD
(D2)
A1
TO
D-BOARD
(D1)
SOUND 34V AND GND
33.75kHz other
28.125k other
L2702
56
G0A560GA0001
L893
G0A150HA0015
15
D456
B0JAME000052
D2002
MAZ30330LL
D9350
MAZ30510ML
D9351
MAZ30510ML
L2701
EXCELDR35
L2009
EXCELSA35T
R7308
220
B_OSD
R_OSD
G_OSD
YS_OSD
1080 OTHER
3.3V
4.5V
GND
(61)
(62)
(63)
(64)
(65)
(66)
(67)
(68)
(69)
(70)
(71)
(72)
(73)
(74)
(75)
(76)
(77)
(78)
(79)
(80)
(81)
(82)
(83)
(84)
(85)
(86)
(87)
(88)
(89)
(90)
(91)
(92)
(93)
(94)
(95)
(96)
(97)
(98)
(101)
(102)
(103)
(104)
(105)
(106)
(107)
(108)
(109)
(110)
(111)
(112)
(113)
(114)
(115)
(116)
(117)
(118)
22
23
24
25
26
27
28

⚠ A-BOARD (4/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(4of5)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(4of5)Schematic Diagram


IC7301
C3EBJC000037
C3EBJC000049
C3EBJC000039
EEPROM
TO DC-BOARD (DC1)
A51
A54
TO DC-BOARD (DC2)
A52
TO DC-BOARD (DC3)
A53
IC7302
C1AB00001394
RGB SELECT
IC7702
SLV [46]
C1AB00000441
D/A CONVERTER
IC7703
AN6912S
CONVERTER
IC831
C0DAAZH00009
DD 3.3V
TO LG-BOARD (LG1)
A21
Q7701
Q7702
Q7703
Q7704
Q7705
Q7706
Q7707
Q7708
Q7709
Q7710
Q7711
Q7712
Q7713
Q7714
Q7715
Q7716
Q7717
Q7718
Q7719
Q7720
Q7721
Q7722
Q7723
Q7724
Q7725
Q7301
XN0150100L
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118

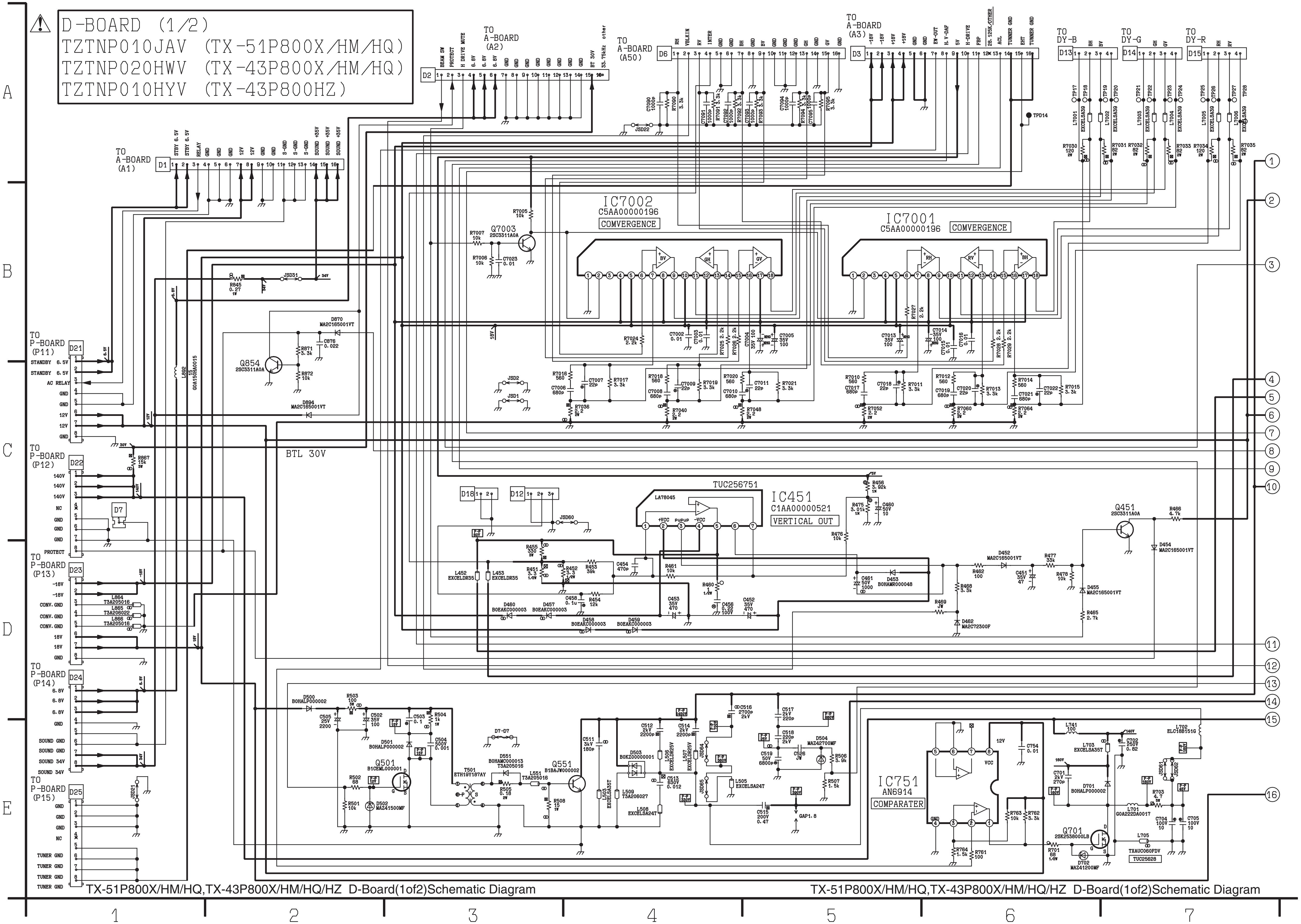
A-BOARD (5/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(5of5)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(5of5)Schematic Diagram

29	30	31	32	33	34	35

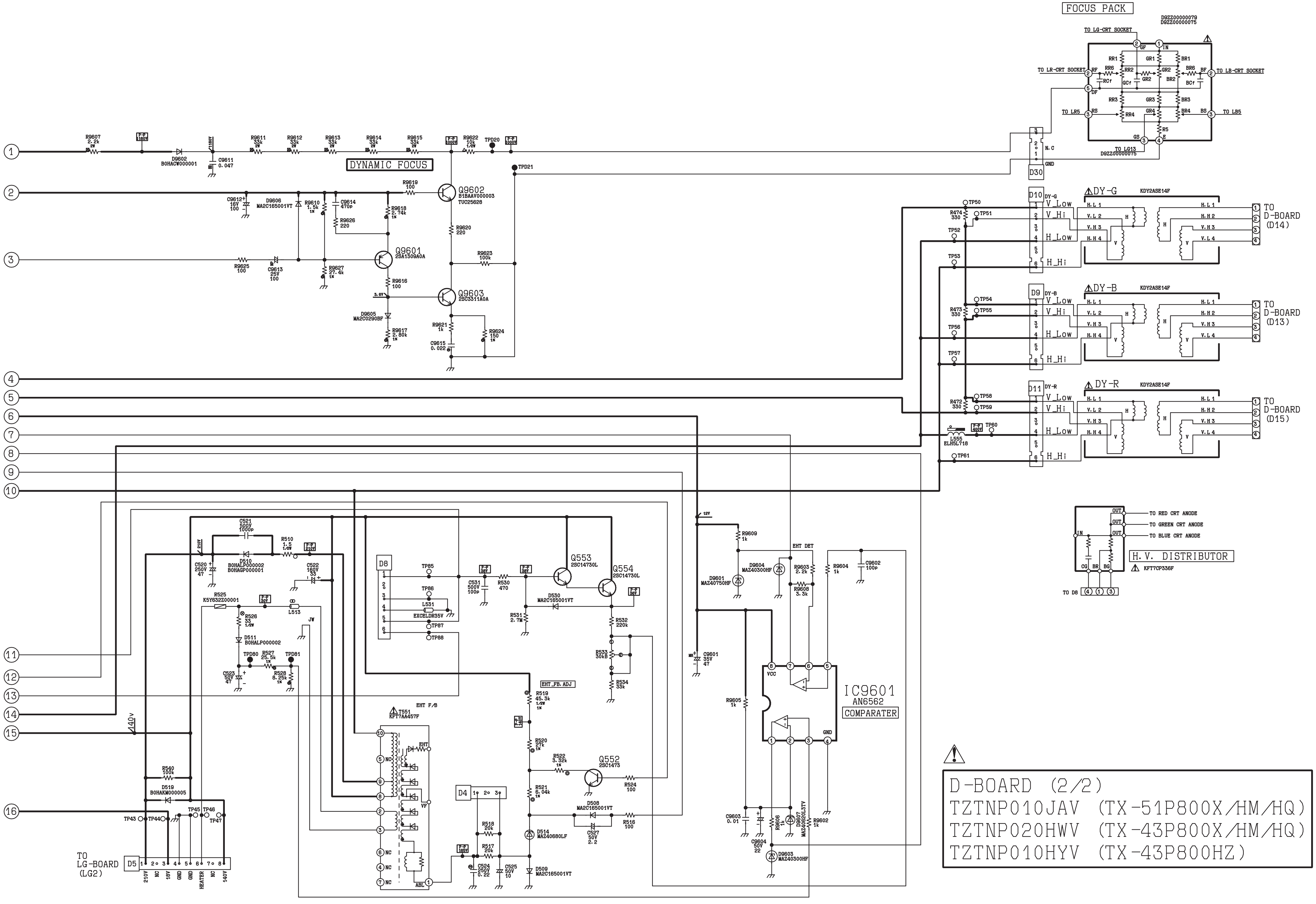
⚠ D-BOARD (1/2)
TZTNP010JAV (TX-51P800X/HM/HQ)
TZTNP020HWV (TX-43P800X/HM/HQ)
TZTNP010HYV (TX-43P800HZ)



A
B
C
D
E
1
2
3
4
5
6
7
TO A-BOARD (A1)
D1
TO A-BOARD (A2)
D2
TO A-BOARD (A50)
D6
TO A-BOARD (A3)
D3
TO DY-B
D13
TO DY-G
D14
TO DY-R
D15
TO P-BOARD (P11)
D21
TO P-BOARD (P12)
D22
TO P-BOARD (P13)
D23
TO P-BOARD (P14)
D24
TO P-BOARD (P15)
D25
D7
D18
D12
IC7002
C5AA00000196
COMVERGENCE
IC7001
C5AA00000196
COMVERGENCE
Q7003
2SC3311A0A
Q854
2SC3311A0A
TUC256751
IC451
C1AA00000521
VERTICAL OUT
LA78045
Q451
2SC3311A0A
Q501
B1CEML000001
Q551
B1BAJW000002
T501
ETH19Y187AY
IC751
AN6914
COMPARATER
Q701
2SK2538000LB
BTL 30V
TPD14
GAP1.8
TUC25628
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(1of2)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(1of2)Schematic Diagram


FOCUS PACK
TO LG-CRT SOCKET
TO LR-CRT SOCKET
TO LB-CRT SOCKET
TO LR5
TO LB5
TO LG13
D9ZZ00000079
D9ZZ00000075
DYNAMIC FOCUS
Q9602
B1BAAV000003
TUC25628
Q9601
2SA1309A0A
Q9603
2SC3311A0A
D30
N.C
GND
TPD20
TPD21
D10
DY-G
D9
DY-B
D11
DY-R
KDY2ASE14F
V_Low
V_Hi
H_Low
H_Hi
TO D-BOARD (D14)
TO D-BOARD (D13)
TO D-BOARD (D15)
L555
ELH5L718
H.V. DISTRIBUTOR
KFT7CP336F
TO RED CRT ANODE
TO GREEN CRT ANODE
TO BLUE CRT ANODE
TO D8
Q553
2SC1473OL
Q554
2SC1473OL
Q552
2SC1473
T551
KFT7AA457F
EHT F/B
EHT_FB. ADJ
EHT DET
IC9601
AN6562
COMPARATER
D8
D4
TO LG-BOARD (LG2)
D5
210V
16V
GND
HEATER
140V
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

D-BOARD (2/2)

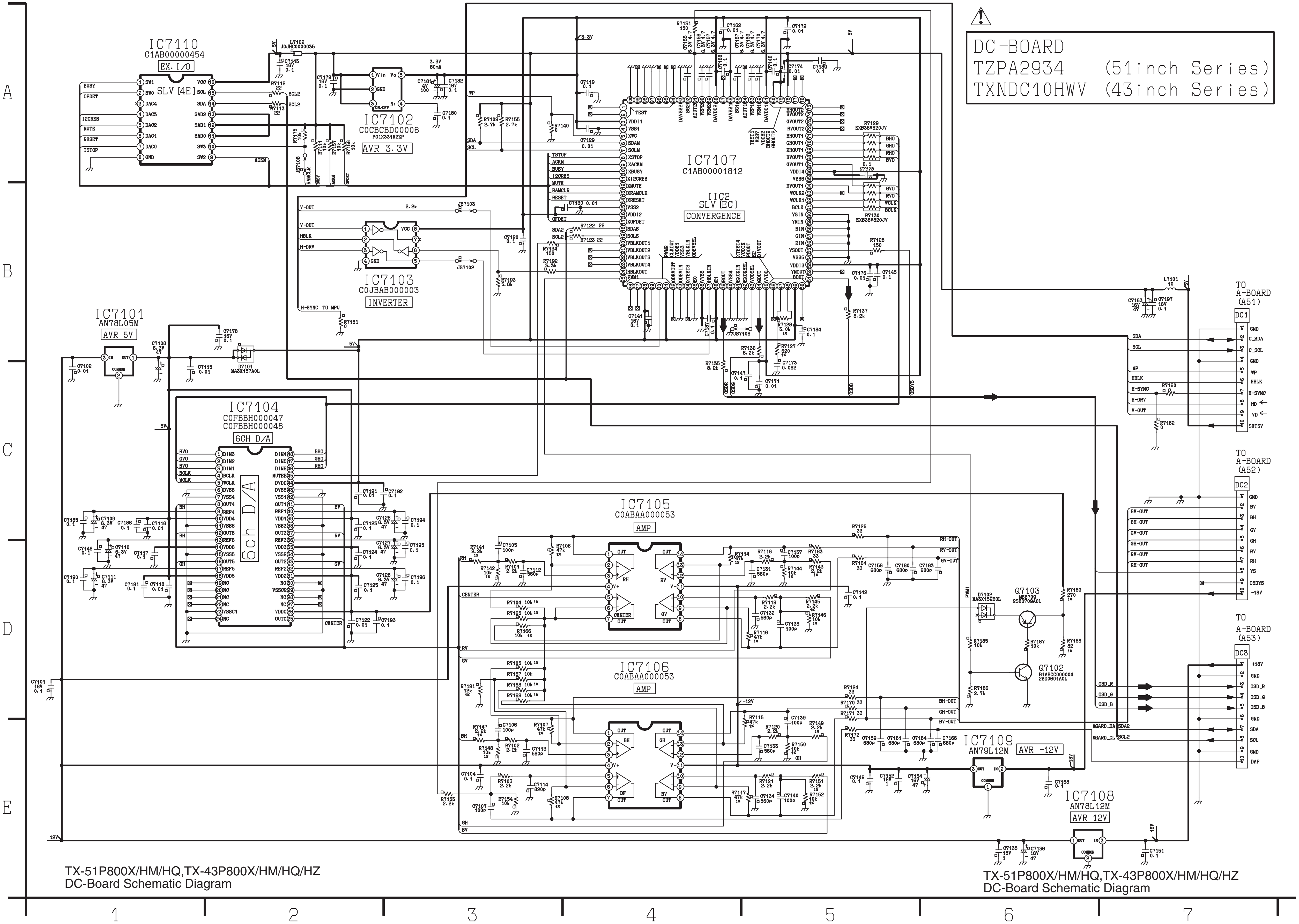
TZTNP010JAV (TX-51P800X/HM/HQ)

TZTNP020HWV (TX-43P800X/HM/HQ)

TZTNP010HYV (TX-43P800HZ)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(2of2)Schematic Diagram

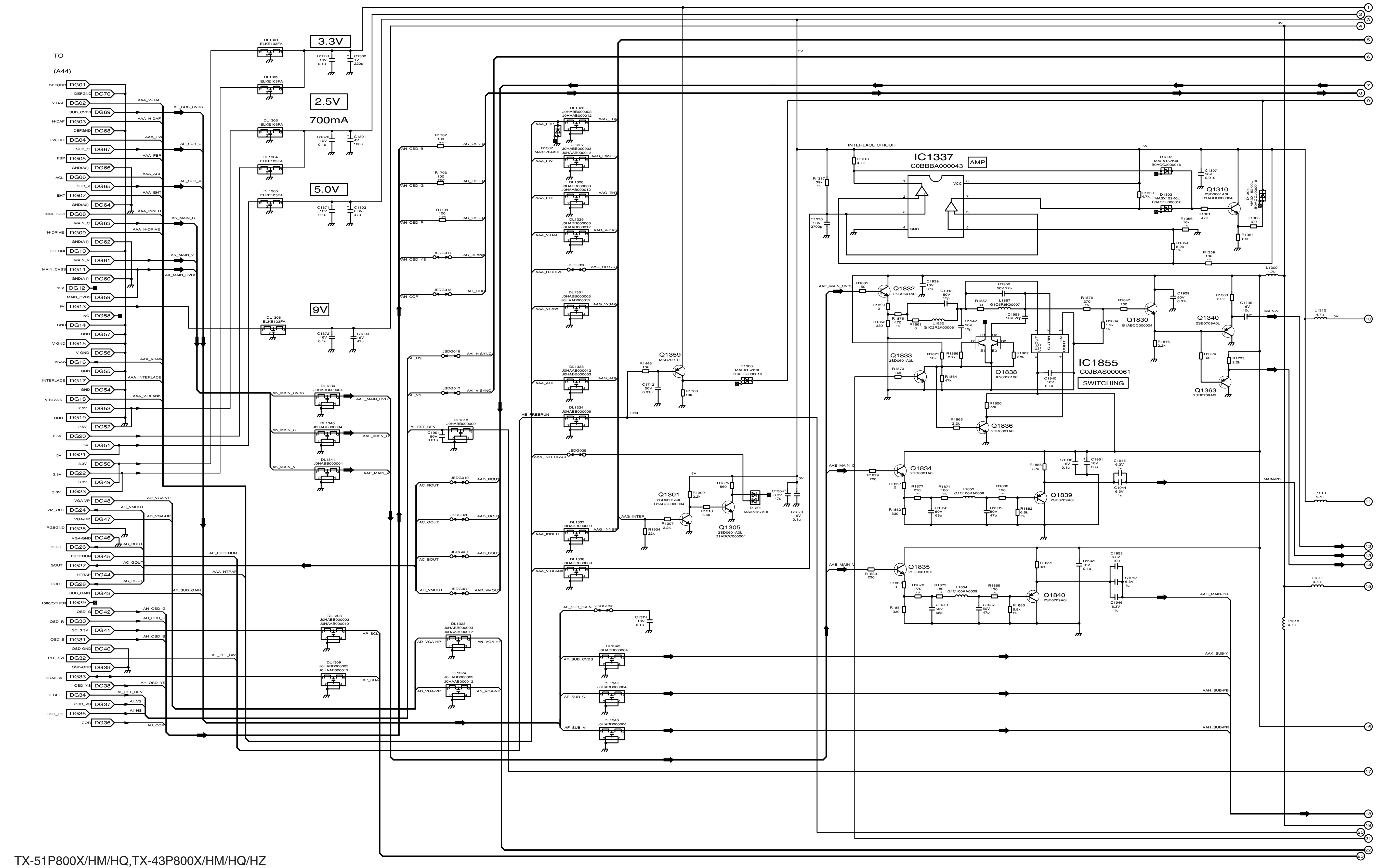
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(2of2)Schematic Diagram


DC-BOARD
TZPA2934 (51inch Series)
TXNDC10HWV (43inch Series)
IC7110
C1AB00000454
EX. I/O
SLV [4E]
IC7102
C0CBCBD00006
PQ1X331M2ZP
AVR 3.3V
IC7103
C0JBAB000003
INVERTER
IC7107
C1AB00001812
IIC2
SLV [EC]
CONVERGENCE
IC7101
AN78L05M
AVR 5V
D7101
MA3X157A0L
IC7104
C0FBBH000047
C0FBBH000048
6CH D/A
6ch D/A
IC7105
C0ABAA000053
AMP
IC7106
C0ABAA000053
AMP
Q7103
MSB709
2SB0709A0L
D7102
MA3X152E0L
Q7102
B1ABCC000004
2SD0601A0L
IC7109
AN79L12M
AVR -12V
IC7108
AN78L12M
AVR 12V
TO A-BOARD (A51)
DC1
GND
C_SDA
C_SCL
GND
WP
HBLK
H-SYNC
HD
VD
SET5V
TO A-BOARD (A52)
DC2
GND
BV
BH
GV
GH
RV
RH
YS
OSDYS
-18V
TO A-BOARD (A53)
DC3
+18V
GND
OSD_R
OSD_G
OSD_B
GND
SDA
SCL
GND
DAF
BUSY
OFDET
I2CRES
MUTE
RESET
TSTOP
ACKM
V-OUT
HBLK
H-DRV
H-SYNC TO MPU
5V
3.3V
12V
-12V
18V
CENTER
RV
GV
GH
BH
BV
RH
1
2
3
4
5
6
7
A
B
C
D
E

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DC-Board Schematic Diagram

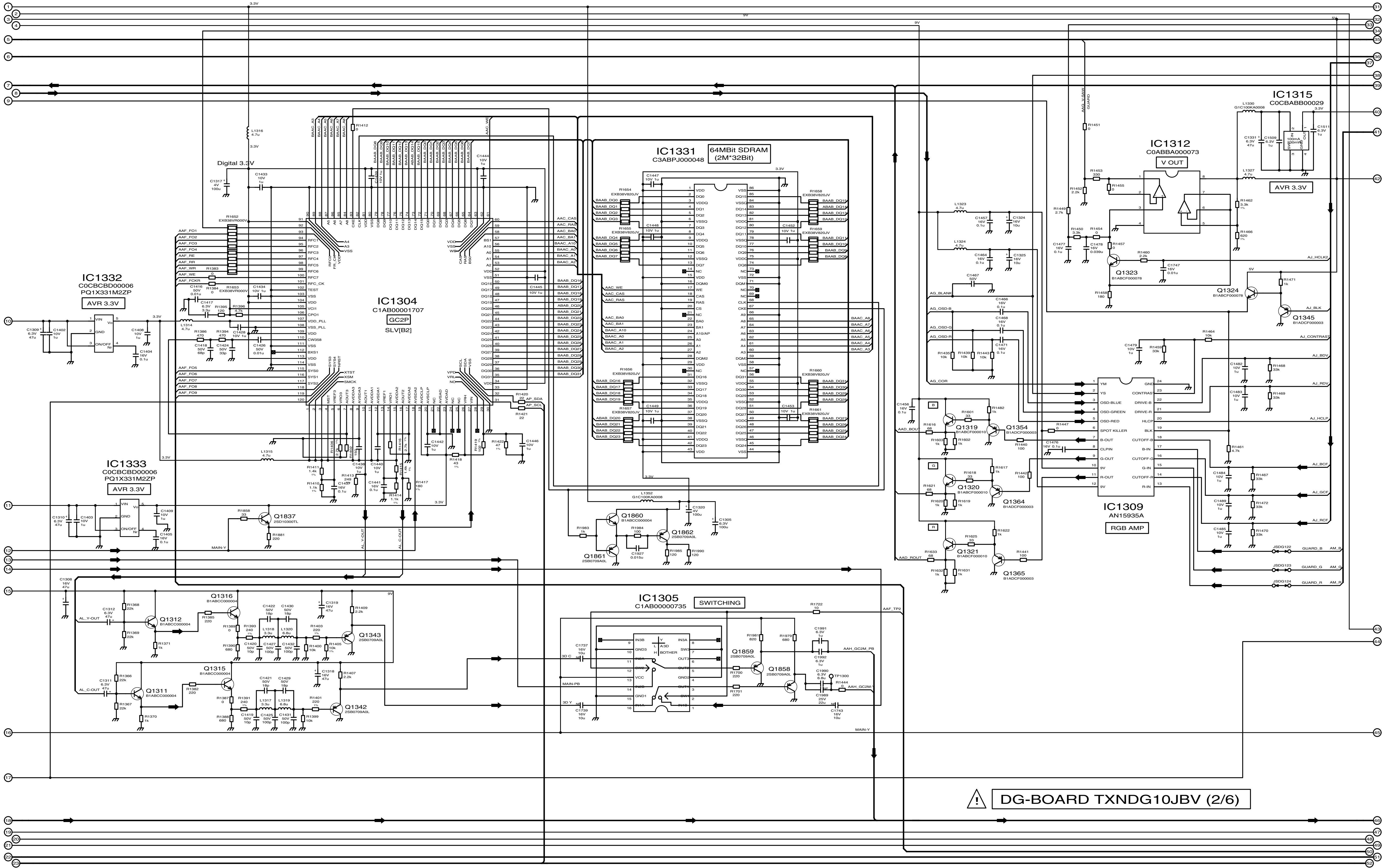
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DC-Board Schematic Diagram

⚠ DG-BOARD TXNDG10JBV (1/6)


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO
(A44)
DG01
DG02
DG03
DG04
DG05
DG06
DG07
DG08
DG09
DG10
DG11
DG12
DG13
DG14
DG15
DG16
DG17
DG18
DG19
DG20
DG21
DG22
DG23
DG24
DG25
DG26
DG27
DG28
DG29
DG30
DG31
DG32
DG33
DG34
DG35
DG36
DG37
DG38
DG39
DG40
DG41
DG42
DG43
DG44
DG45
DG46
DG47
DG48
DG49
DG50
DG51
DG52
DG53
DG54
DG55
DG56
DG57
DG58
DG59
DG60
DG61
DG62
DG63
DG64
DG65
DG66
DG67
DG68
DG69
DG70
3.3V
2.5V
700mA
5.0V
9V
DL1301 ELKE103FA
DL1302 ELKE103FA
DL1303 ELKE103FA
DL1304 ELKE103FA
DL1305 ELKE103FA
DL1306 ELKE103FA
IC1337
C0BBBA000043
AMP
INTERLACE CIRCUIT
VCC
GND
Q1310
IC1855
C0JBAS000061
SWITCHING
Q1832
Q1833
Q1838
Q1836
Q1830
Q1340
Q1363
Q1834
Q1839
Q1835
Q1840
Q1359
Q1301
Q1305
MAIN-Y
MAIN-PB
AAH_MAIN-PR
AAK_SUB-Y
AAH_SUB-PB
AAH_SUB-PR
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(1of6)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ DG-Board(1of6)Schematic Diagram

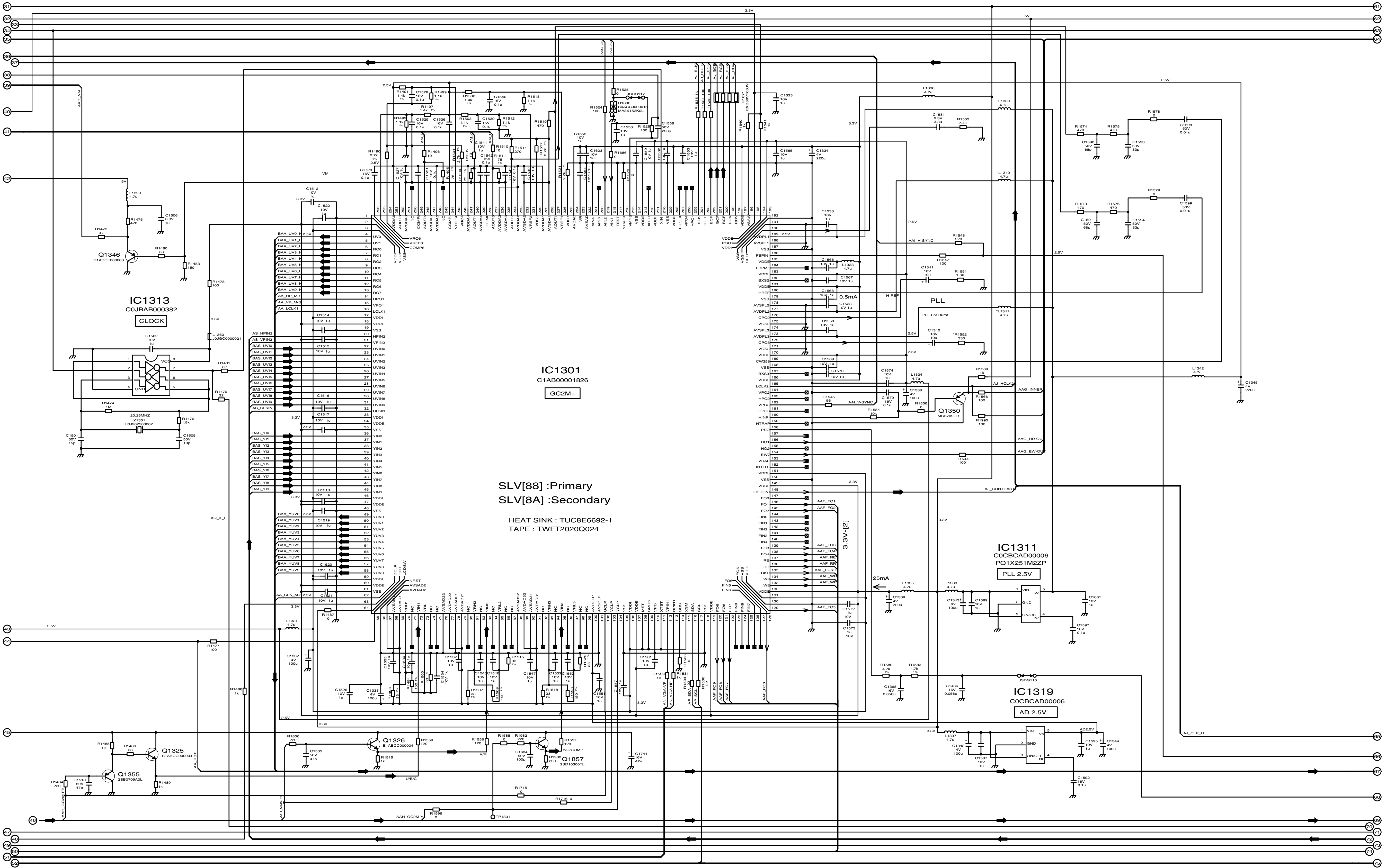

IC1332
C0CBCDD00006
PQ1X331M2ZP
AVR 3.3V
IC1333
C0CBCDD00006
PQ1X331M2ZP
AVR 3.3V
IC1304
C1AB00001707
GC2P
SLV[B2]
Digital 3.3V
IC1331
C3ABPJ000048
64MBit SDRAM
(2M*32Bit)
IC1305
C1AB00000735
SWITCHING
IC1312
C0ABBA000073
V OUT
IC1315
C0CBABB00029
AVR 3.3V
IC1309
AN15935A
RGB AMP
Q1837
Q1860
Q1861
Q1862
Q1316
Q1312
Q1343
Q1315
Q1311
Q1342
Q1859
Q1858
Q1319
Q1354
Q1320
Q1364
Q1321
Q1365
Q1323
Q1324
Q1345
AL_Y-OUT
AL_C-OUT
MAIN-Y
MAIN-PB
AAF_TP2
AAH_GC2M_PB
AAD_BOUT
AAD_ROUT
AJ_HCLK2
AJ_BLK
AJ_CONTRAST
AJ_BDV
AJ_RDV
AJ_HCLP
AJ_BCF
AJ_GCF
AJ_RCF
GUARD_B
GUARD_G
GUARD_R
DG-BOARD TXNDG10JBV (2/6)

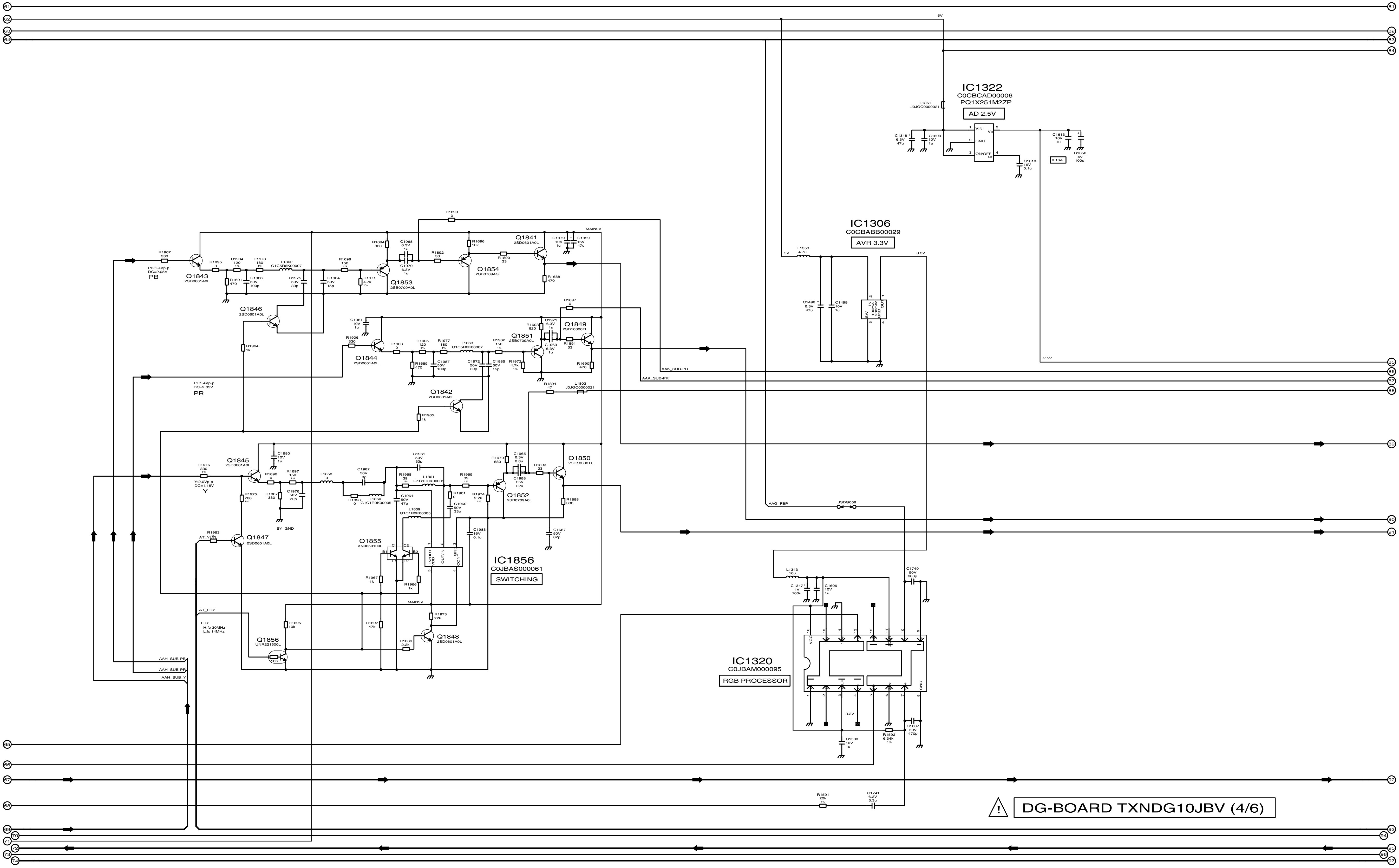
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(2of6)Schematic Diagram

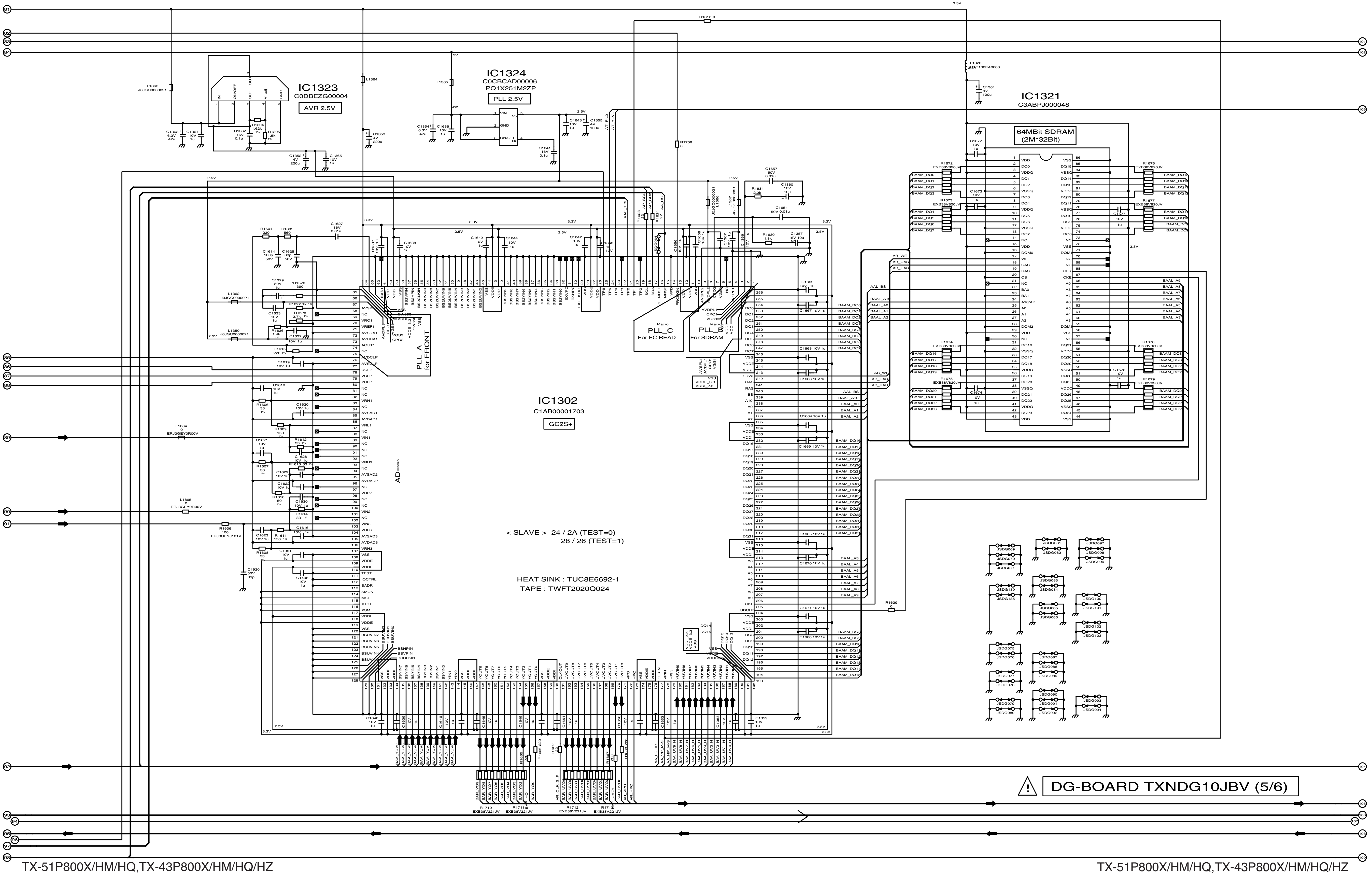
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(2of6)Schematic Diagram

10 11 12 13 14 15 16 17 18

DG-BOARD TXNDG10JBV (3/6)

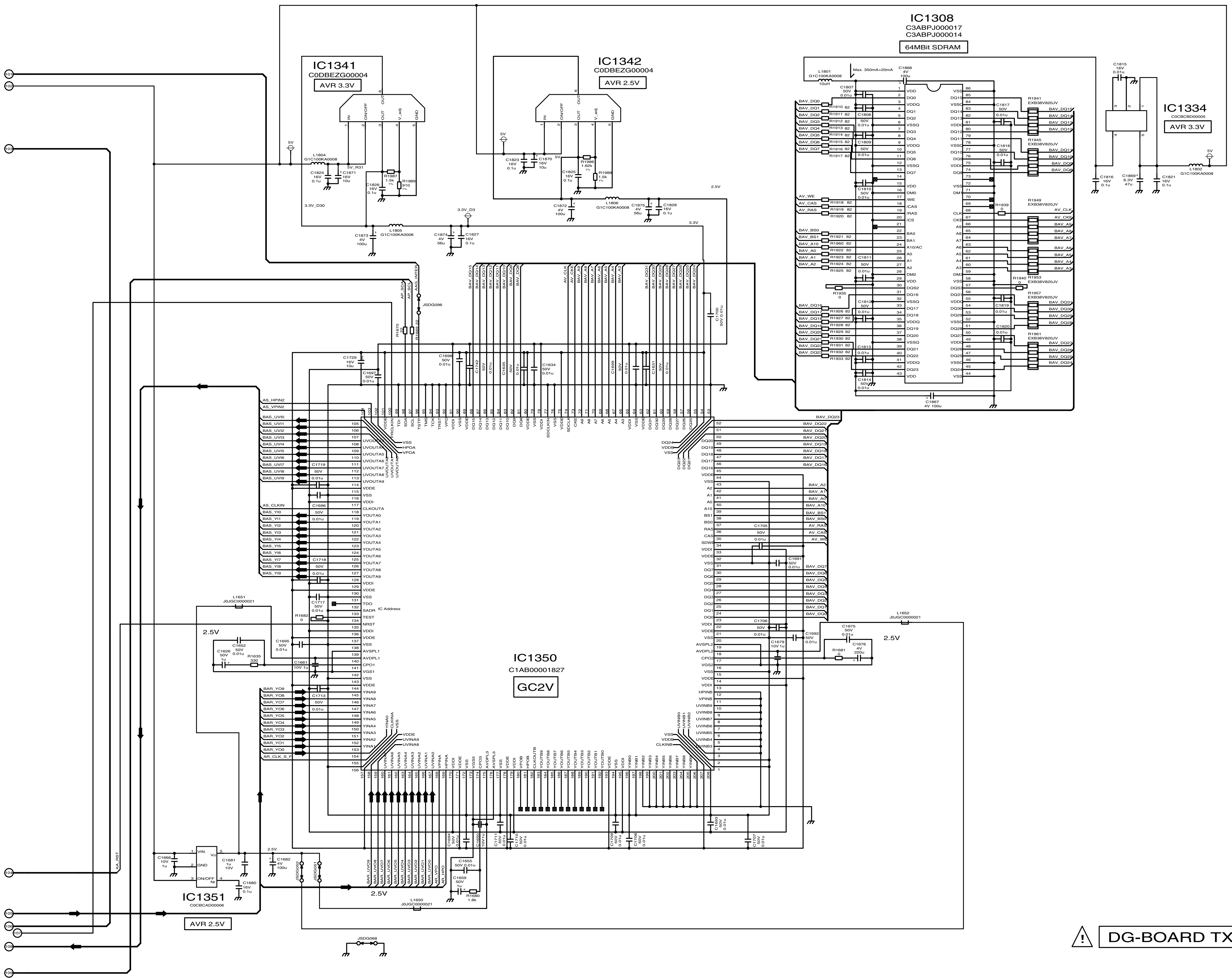

IC1301
C1AB00001826
GC2M+
SLV[88] :Primary
SLV[8A] :Secondary
HEAT SINK : TUC8E6692-1
TAPE : TWFT2020Q024
IC1313
C0JBAB000382
CLOCK
X1301
20.25MHZ
IC1311
C0CBCAD00006
PQ1X251M2ZP
PLL 2.5V
IC1319
C0CBCAD00006
AD 2.5V
Q1346
B1ADCF000003
Q1325
B1ABCC000004
Q1355
2SB0709A0L
Q1326
B1ABCC000004
Q1857
2SD1030OTL
Q1350
MSB709-T1
PLL
PLL For Burst
25mA
0.5mA
3.3V-[2]
AAI_H-SYNC
AAI_V-SYNC
AAG_INNER
AAG_HD-OUT
AAG_EW-OUT
AJ_CONTRAST
AJ_CLP_H
AJ_HCLK2
AAH_GC2M-V
TP1301


DG-BOARD TXNDG10JBV (4/6)
IC1322
C0CBCAD00006
PQ1X251M2ZP
AD 2.5V
VIN
GND
ON/OFF
Vo
Nr
L1361 J0JGC0000021
C1348 6.3V 47u
C1609 10V 1u
C1610 16V 0.1u
C1613 10V 1u
C1350 4V 100u
0.16A
5V
2.5V
IC1306
C0CBABB00029
AVR 3.3V
L1353 4.7u
C1498 6.3V 47u
C1499 10V 1u
IN
OUT
SW
GND
100mA
200mW
3.3V
MAIN9V
R1899 0
PB:1.4Vp-p DC=2.05V
PB
R1907 330
Q1843 2SD0601A0L
R1895 0
R1904 120 1%
R1978 180 1%
L1862 G1C5R6K00007
R1691 470
C1986 50V 100p
C1975 50V 39p
C1984 50V 15p
R1698 150 1%
R1971 4.7k 1%
R1694 820
C1968 6.3V 1u
C1970 6.3V 1u
Q1853 2SB0709A0L
R1892 33
R1696 10k
Q1854 2SB0709ASL
R1890 33
Q1841 2SD0601A0L
R1688 470
C1979 10V 1u
C1959 16V 47u
Q1846 2SD0601A0L
R1964 1k
R1897 0
C1981 10V 1u
R1906 330
Q1844 2SD0601A0L
R1903 0
R1905 120 1%
R1977 180 1%
L1863 G1C5R6K00007
R1689 470
C1987 50V 100p
C1972 50V 39p
C1985 50V 15p
R1962 150 1%
R1972 4.7k 1%
Q1851 2SB0709A0L
R1693 820
C1971 6.3V 1u
C1969 6.3V 1u
R1891 33
Q1849 2SD10300TL
R1690 470
AAK_SUB-PB
AAK_SUB-PR
R1894 47
L1803 J0JGC0000021
PR1.4Vp-p DC=2.05V
PR
Q1842 2SD0601A0L
R1965 1k
R1976 330 1%
Y:2.0Vp-p DC=1.15V
Y
Q1845 2SD0601A0L
C1980 10V 1u
R1896 0
R1697 150 1%
R1975 768 1%
R1887 330
C1976 50V 22p
SY_GND
L1858 0
C1982 50V 8p
R1898 0
L1860 G1C1R0K00005
C1961 50V 33p
R1968 39 1%
L1861 G1C1R0K00005
C1964 50V 47p
L1859 G1C1R0K00005
R1901 0
C1960 50V 33p
R1969 39 1%
R1974 2.2k 1%
C1983 16V 0.1u
R1970 680
C1965 6.3V 6.8u
C1988 25V 22u
Q1852 2SB0709A0L
R1893 33
Q1850 2SD10300TL
R1888 330
C1687 50V 82p
R1963 1k
AT_YL
Q1847 2SD0601A0L
Q1855 XN0650100L
C1 C2 B1 B2 E1 E2
R1967 1k
R1966 1k
IN/OUT VDD
OUT/IN
GND
CONT
IC1856
C0JBAS000061
SWITCHING
AT_FIL2
FIL2
H:fc 30MHz
L:fc 14MHz
R1695 10k
Q1856 UNR221500L
10K
R1692 47k
R1886 2.2k
R1973 22k
Q1848 2SD0601A0L
AAH_SUB-PB
AAH_SUB-PR
AAH_SUB_Y
AAG_FBP
JSDG058
L1343 10u
C1347 4V 100u
C1606 10V 1u
C1749 50V 680p
IC1320
C0JBAM000095
RGB PROCESSOR
VCC
GND
C1500 10V 1u
R1592 6.34k 1%
C1607 50V 470p
R1591 22k 1%
C1741 6.3V 3.3u
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98

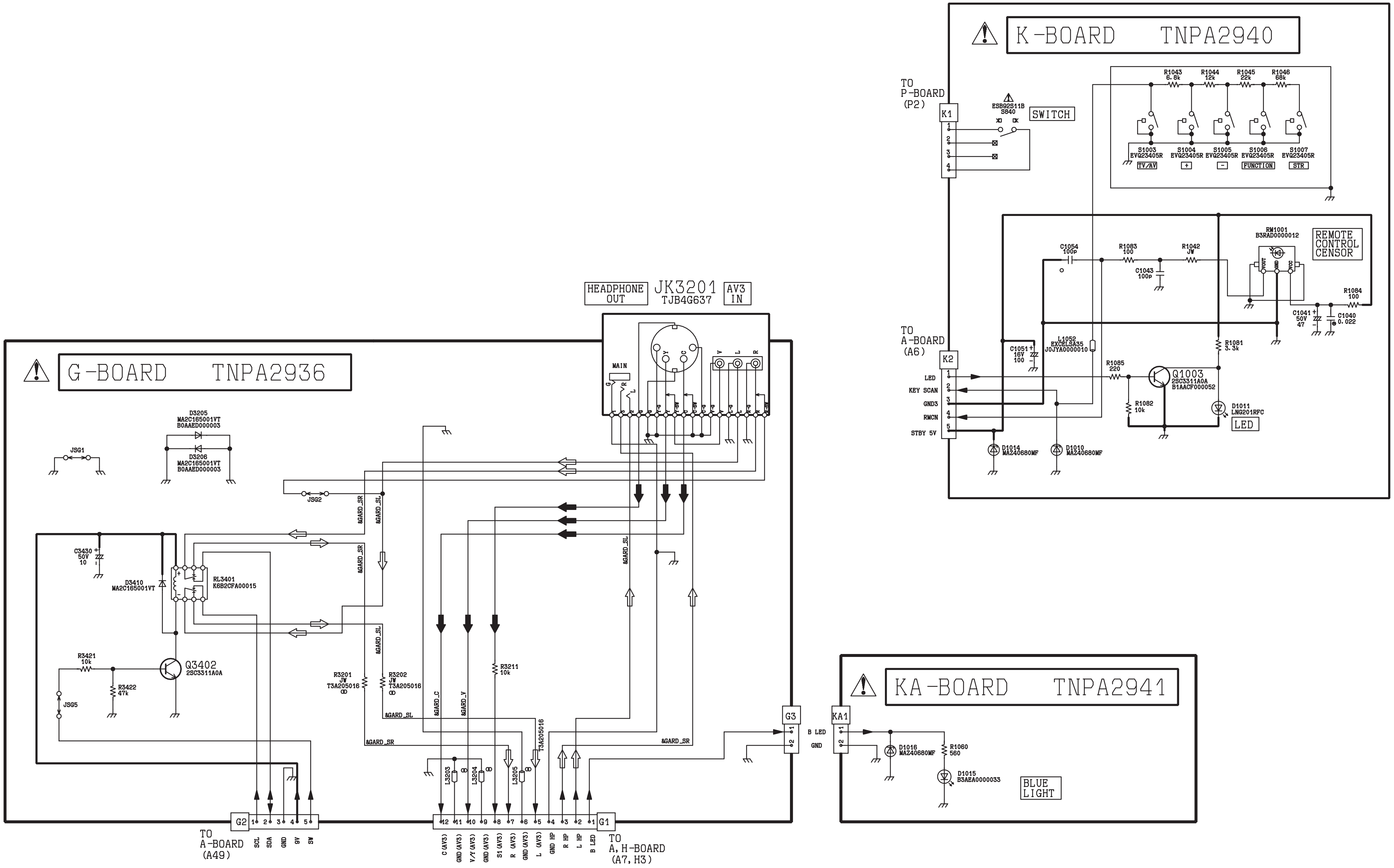

DG-BOARD TXNDG10JBV (5/6)
IC1323
C0DBEZG00004
AVR 2.5V
IC1324
C0CBCAD00006
PQ1X251M2ZP
PLL 2.5V
IC1321
C3ABPJ000048
64MBit SDRAM
(2M*32Bit)
IC1302
C1AB00001703
GC2S+
PLL_A
for FRONT
PLL_C
For FC READ
PLL_B
For SDRAM
AD Macro
< SLAVE > 24 / 2A (TEST=0)
28 / 26 (TEST=1)
HEAT SINK : TUC8E6692-1
TAPE : TWFT2020Q024
3.3V
2.5V
5V
R1710 EXB38V221JV
R1711 EXB38V221JV
R1712 EXB38V221JV
R1713 EXB38V221JV

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(5of6)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(5of6)Schematic Diagram


IC1341
C0DBEZG00004
AVR 3.3V
IC1342
C0DBEZG00004
AVR 2.5V
IC1308
C3ABPJ000017
C3ABPJ000014
64MBit SDRAM
IC1334
C0CBCBD00005
AVR 3.3V
IC1350
C1AB00001827
GC2V
IC1351
C0CBCAD00006
AVR 2.5V
2.5V
2.5V
2.5V
5V
3.3V
IC Address

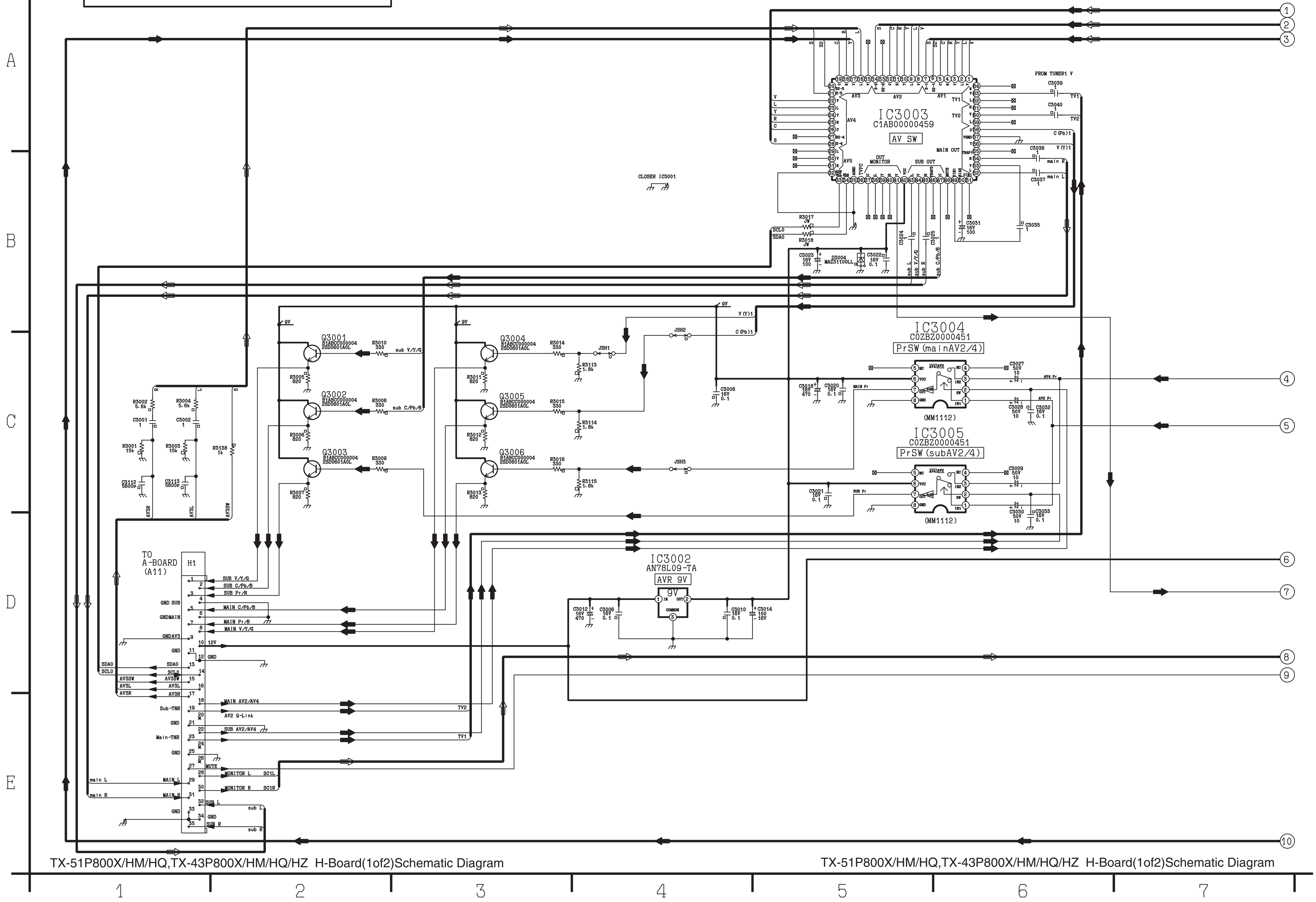
⚠ DG-BOARD TXNDG10JBV (6/6)


K-BOARD TNPA2940
TO P-BOARD (P2)
K1
ESB92S11B
S840
SWITCH
R1043 6.8k
R1044 12k
R1045 22k
R1046 68k
S1003 EVQ23405R TV/AV
S1004 EVQ23405R +
S1005 EVQ23405R -
S1006 EVQ23405R FUNCTION
S1007 EVQ23405R STR
RM1001 B3RAD0000012
REMOTE CONTROL CENSOR
VOUT
GND
VCC
C1054 100p
R1083 100
C1043 100p
R1042 JW
R1084 100
C1041 50V 47
C1040 0.022
TO A-BOARD (A6)
K2
LED
KEY SCAN
GND3
RMCN
STBY 5V
C1051 16V 100
L1052 EXCELSA35 J0JYA0000010
R1081 3.3k
R1085 220
Q1003 2SC3311A0A B1AACF000052
R1082 10k
D1011 LNG201RFC
LED
D1014 MAZ40680MF
D1010 MAZ40680MF
HEADPHONE OUT
JK3201 TJB4G637
AV3 IN
MAIN
G-BOARD TNPA2936
D3205 MA2C165001VT B0AAED000003
D3206 MA2C165001VT B0AAED000003
JSG1
JSG2
&GARD_SR
&GARD_SL
C3430 50V 10
D3410 MA2C165001VT
RL3401 K6B2CFA00015
R3421 10k
R3422 47k
Q3402 2SC3311A0A
JSG5
R3201 JW T3A205016
R3202 JW T3A205016
R3211 10k
&GARD_C
&GARD_V
T3A205016
L3203
L3204
L3205
G2
TO A-BOARD (A49)
SCL
SDA
GND
9V
SW
G1
C (AV3)
GND (AV3)
V/Y (AV3)
GND (AV3)
S1 (AV3)
R (AV3)
GND (AV3)
L (AV3)
GND HP
R HP
L HP
B LED
TO A, H-BOARD (A7, H3)
G3
B LED
GND
KA1
KA-BOARD TNPA2941
D1016 MAZ40680MF
R1060 560
D1015 B3AEA0000033
BLUE LIGHT

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
G,K and KA-Board Schematic Diagram

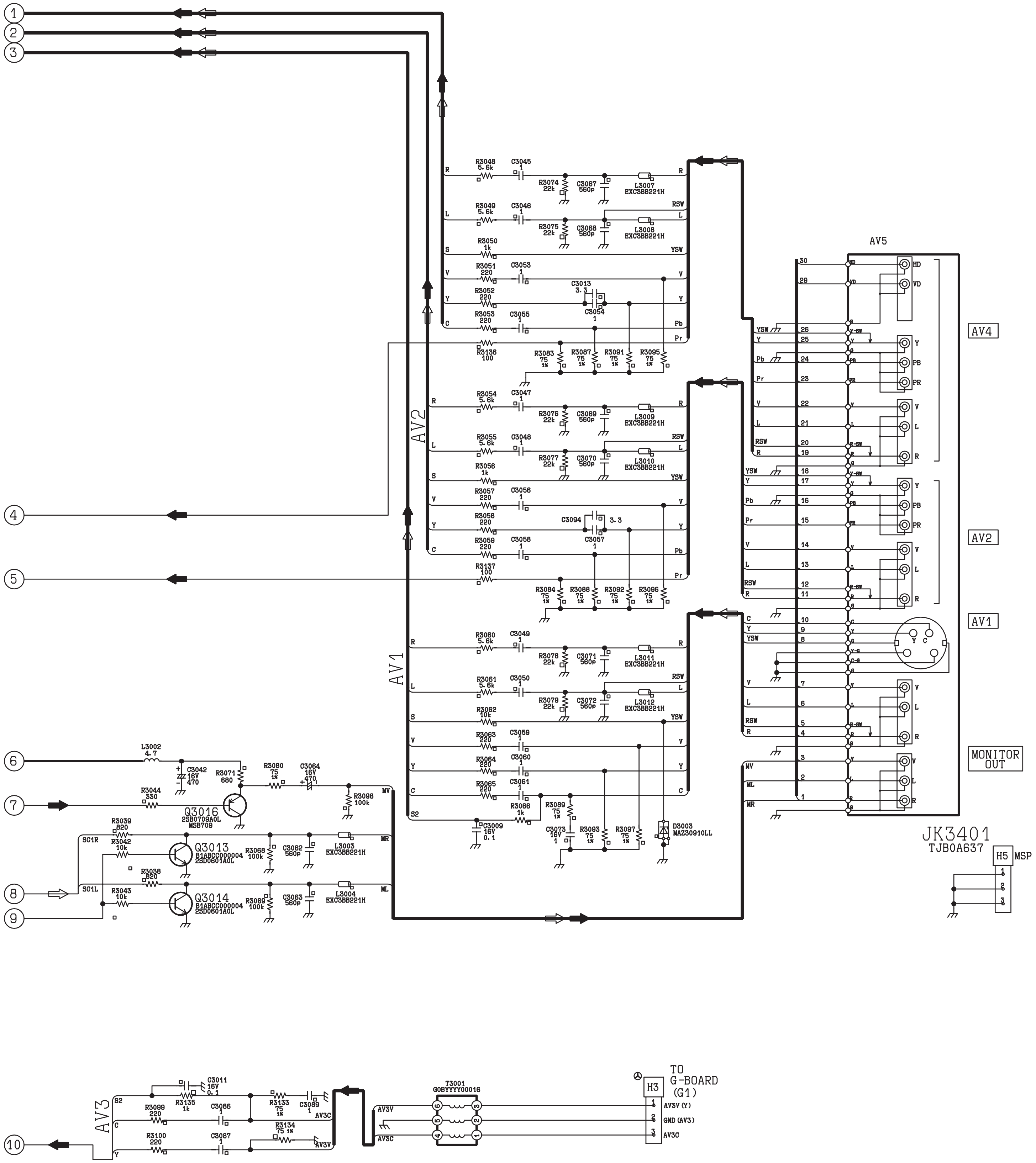
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
G,K and KA-Board Schematic Diagram

⚠ H-BOARD TNPA2555AD (1/2)



A
B
C
D
E
1
2
3
4
5
6
7
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
IC3003
C1AB00000459
AV SW
AV1
AV2
AV3
AV4
AV5
TV1
TV2
MAIN OUT
OUT MONITOR
SUB OUT
FROM TUNER1 V
C3039 1
C3040 1
C3036 1
C3037 1
C3035 1
C3031 16V 100
C3024
C3025
C (Pb) 1
V (Y) 1
main R
main L
CLOSER IC3001
R3017 JW
R3018 JW
SCL0
SDA0
C3023 16V 100
D3004 MAZ31100LL
C3022 16V 0.1
sub L
sub V/Y/G
sub R
sub C/Pb/B
9V
Q3001 B1ABCC000004 2SD0601A0L
Q3002 B1ABCC000004 2SD0601A0L
Q3003 B1ABCC000004 2SD0601A0L
Q3004 B1ABCC000004 2SD0601A0L
Q3005 B1ABCC000004 2SD0601A0L
Q3006 B1ABCC000004 2SD0601A0L
R3010 330
R3008 330
R3009 330
R3014 330
R3015 330
R3016 330
R3005 820
R3006 820
R3007 820
R3011 820
R3012 820
R3013 820
R3113 1.8k
R3114 1.8k
R3115 1.8k
JSH1
JSH2
JSH3
C3008 16V 0.1
R3002 5.6k
R3004 5.6k
C3001 1
C3002 1
R3001 15k
R3003 15k
R3138 1k
C3112 5600P
C3113 5600P
AV3R
AV3L
AV3SW
IC3004
C0ZBZ0000451
PrSW (mainAV2/4)
(MM1112)
IC3005
C0ZBZ0000451
PrSW (subAV2/4)
(MM1112)
C3018 16V 470
C3020 16V 0.1
C3021 16V 0.1
MAIN Pr
SUB Pr
AV4 Pr
AV2 Pr
C3027 50V 10
C3028 50V 10
C3032 16V 0.1
C3029 50V 10
C3030 50V 10
C3033 16V 0.1
IC3002
AN78L09-TA
AVR 9V
9V
IN
OUT
COMMON
C3012 16V 470
C3006 16V 0.1
C3010 16V 0.1
C3014 100 16V
TO A-BOARD (A11)
H1
SUB V/Y/G
SUB C/Pb/B
SUB Pr/R
GND SUB
GNDMAIN
MAIN C/Pb/B
MAIN Pr/R
MAIN V/Y/G
GNDAV3
GND
12V
SDA0
SCL0
AV3SW
AV3L
AV3R
MAIN AV2/AV4
Sub-TNR
AV2 Q-Link
Main-TNR
SUB AV2/AV4
TV2
TV1
MUTE
MONITOR L
MONITOR R
SC1L
SC1R
main L
main R
MAIN L
MAIN R
SUB L
SUB R
sub L
sub R

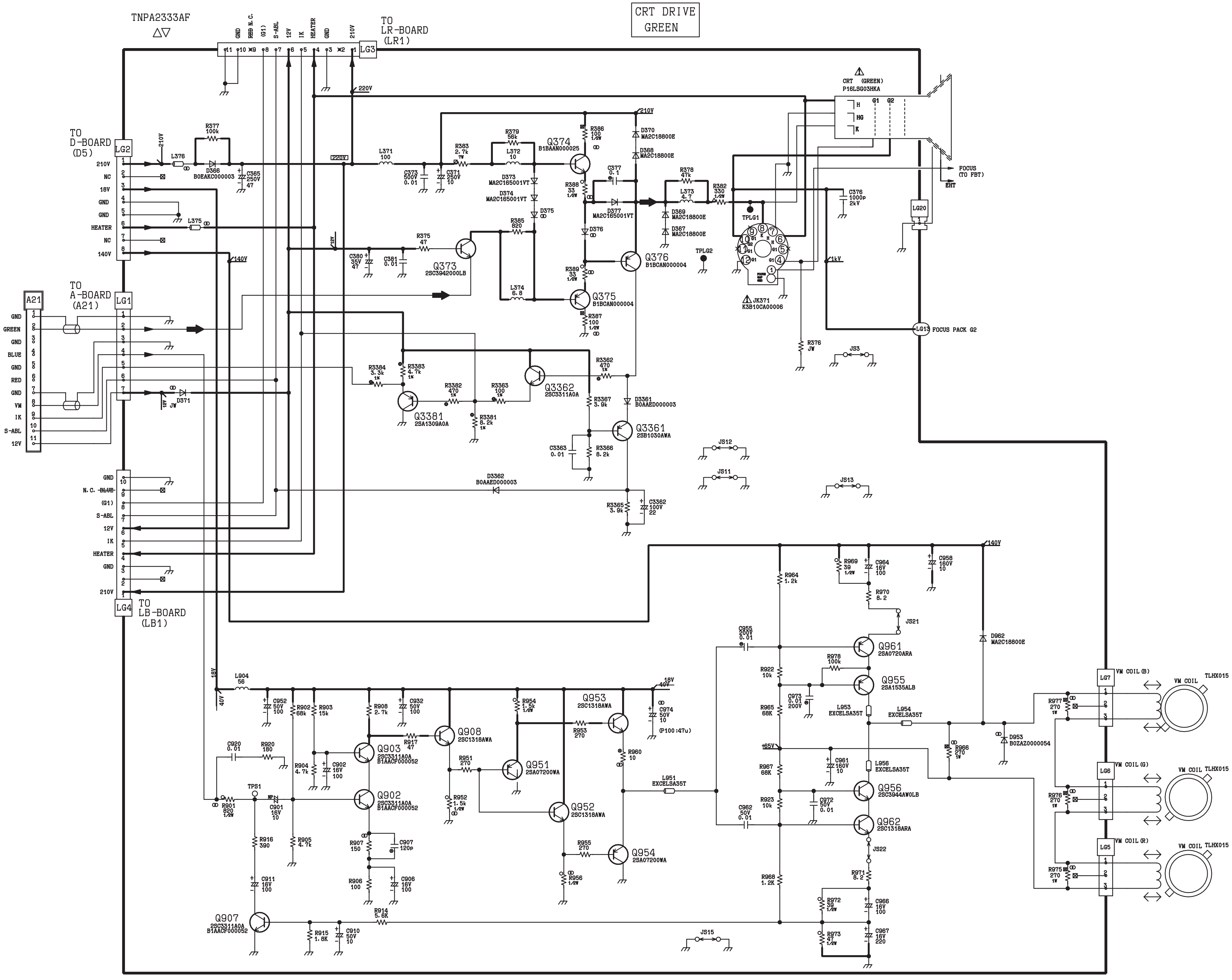
⚠ H-BOARD TNPA2555AD (2/2)


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
AV2
AV1
AV3
AV5
AV4
AV2
AV1
MONITOR OUT
JK3401
TJB0A637
H5 MSP
Q3016
2SB0709A0L
MSB709
Q3013
B1ABCC000004
2SD0601A0L
Q3014
B1ABCC000004
2SD0601A0L
L3002
4.7
L3003
EXC3BB221H
L3004
EXC3BB221H
L3007
EXC3BB221H
L3008
EXC3BB221H
L3009
EXC3BB221H
L3010
EXC3BB221H
L3011
EXC3BB221H
L3012
EXC3BB221H
D3003
MAZ30910LL
T3001
G0BYYYY00016
TO G-BOARD (G1)
H3
AV3V (Y)
GND (AV3)
AV3C
R
L
S
V
Y
C
Pb
Pr
RSW
YSW
MV
ML
MR
SC1R
SC1L
S2
HD
VD
PB
PR

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(2of2)Schematic Diagram

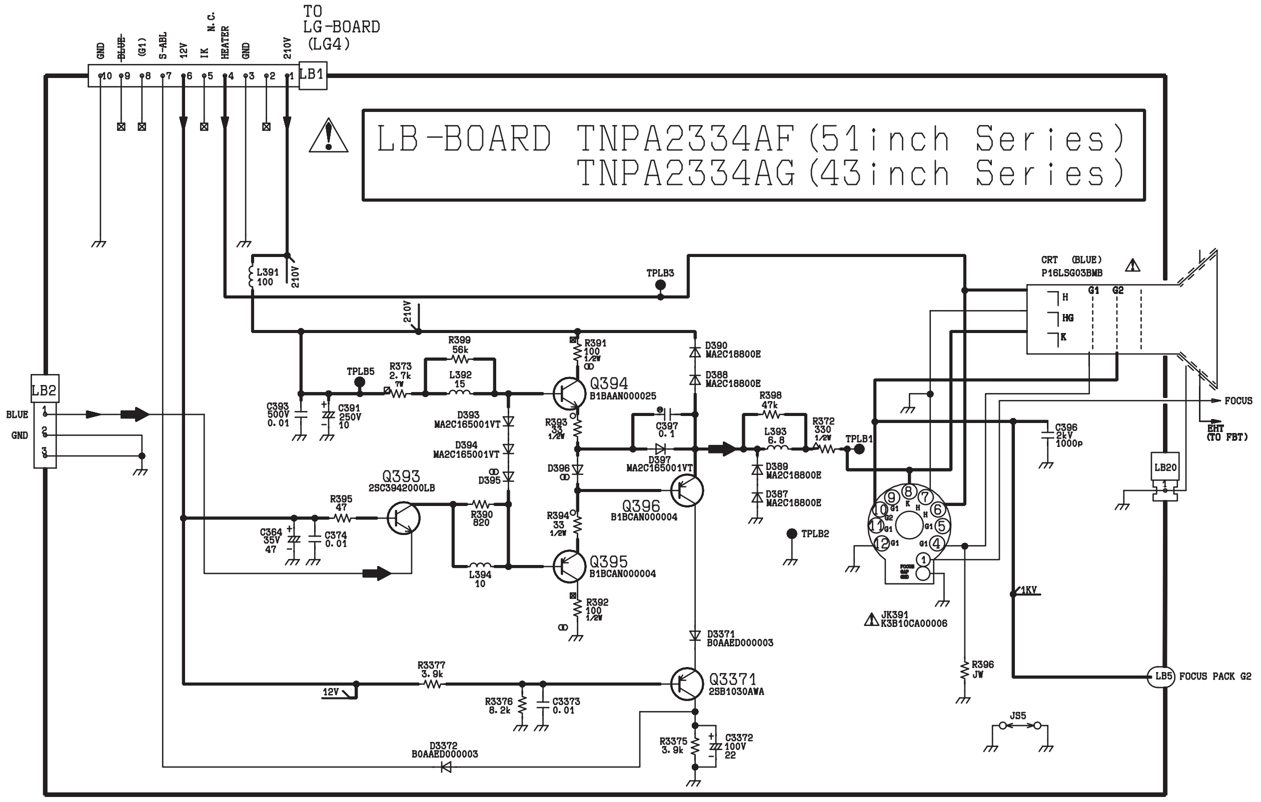
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(2of2)Schematic Diagram

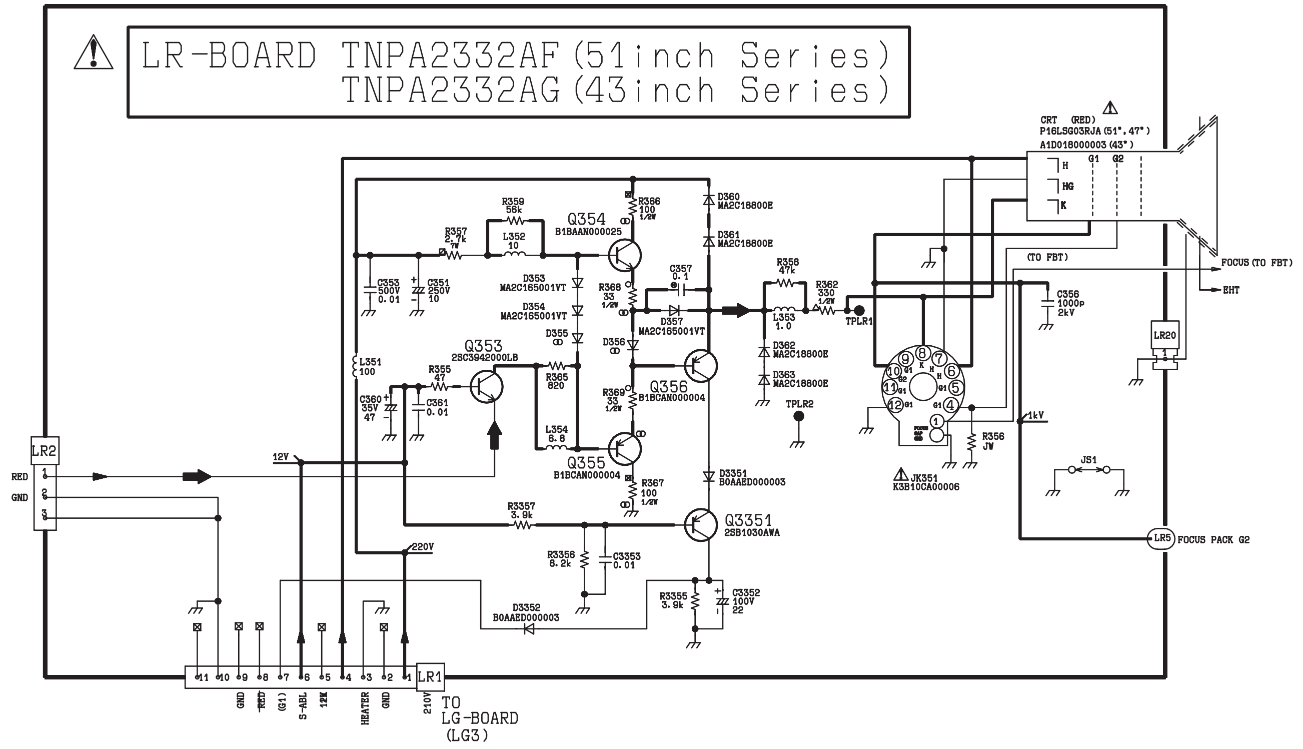
⚠ LG-BOARD TNPA2333AF (51inch Series)
TNPA2333AG (43inch Series)

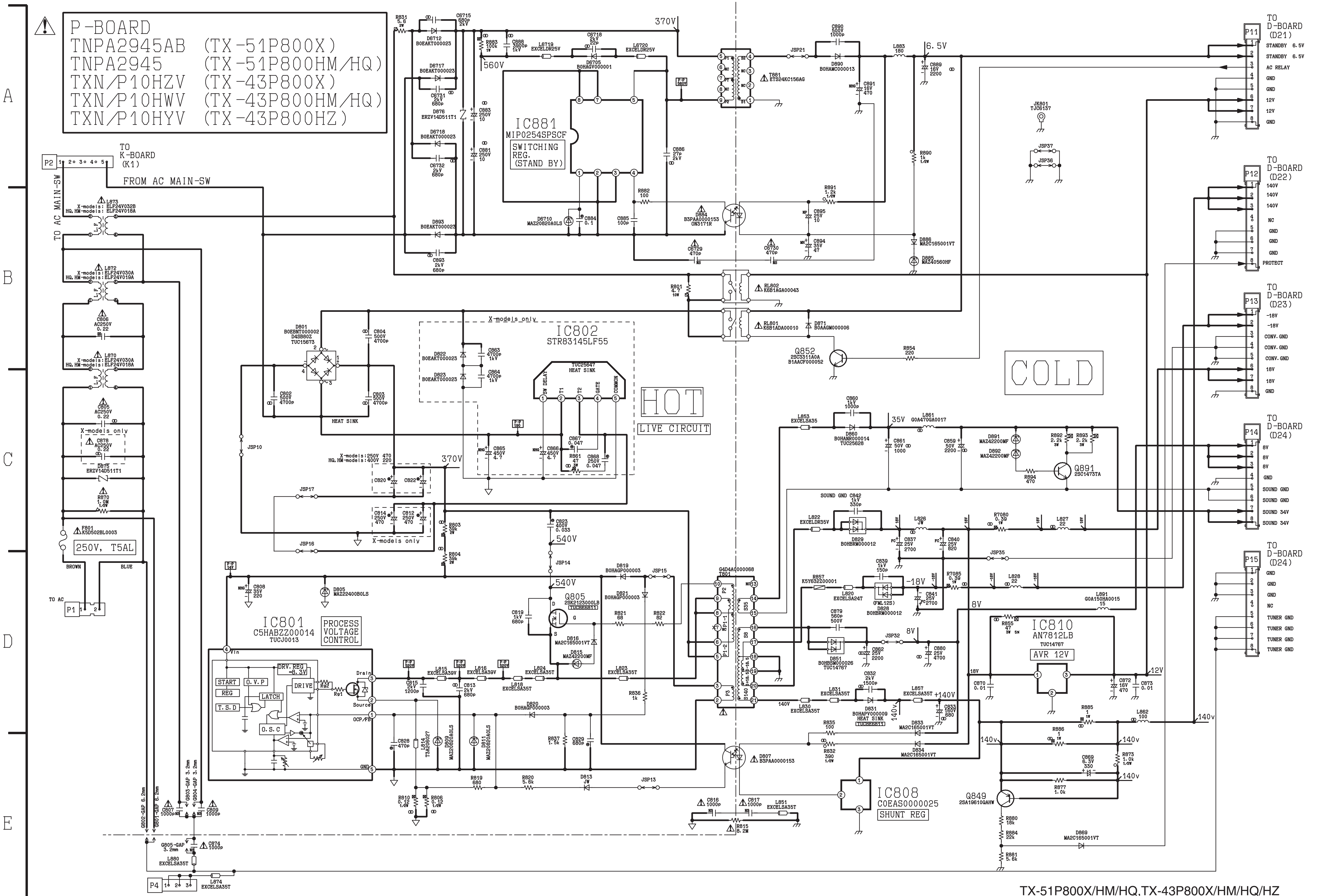

TNPA2333AF
△▽
TO LR-BOARD (LR1)
LG3
GND
REG N.C.
(G1)
S-ABL
12V
IK
HEATER
GND
210V
CRT DRIVE GREEN
220V
210V
TO D-BOARD (D5)
LG2
210V
NC
18V
GND
GND
HEATER
NC
140V
R377 100k
L376
D366 B0EAKC000003
C365 250V 47
L371 100
C372 500V 0.01
C371 250V 10
R383 2.7k
R379 56k
L372 10
Q374 B1BAAN000025
R386 100 1/2W
D370 MA2C18800E
D368 MA2C18800E
D373 MA2C165001VT
D374 MA2C165001VT
D375
R388 33 1/2W
C377 0.1
D377 MA2C165001VT
R378 47k
L373 4.7
R382 330 1/2W
D369 MA2C18800E
D367 MA2C18800E
D376
R385 820
R375 47
C380 35V 47
C381 0.01
Q373 2SC3942000LB
L374 6.8
Q375 B1BCAN000004
R389 33 1/2W
R387 100 1/2W
Q376 B1BCAN000004
TPLG1
TPLG2
CRT (GREEN) P16LSG03HKA
G1 G2
H HG K
FOCUS (TO FBT)
EHT
C376 1000p 2kV
LG20
1kV
JK371 K3B10CA00006
LG13 FOCUS PACK G2
R376 JW
JS3
TO A-BOARD (A21)
A21
LG1
GND
GREEN
GND
BLUE
GND
RED
GND
VM
IK
S-ABL
12V
140V
D371 JW
R3384 3.3k
R3383 4.7k
Q3381 2SA1309A0A
R3382 470
R3363 100
R3381 8.2k
Q3362 2SC3311A0A
R3362 470
R3367 3.9k
D3361 B0AAED000003
Q3361 2SB1030AWA
C3363 0.01
R3366 8.2k
JS12
JS11
JS13
D3362 B0AAED000003
R3365 3.9k
C3362 100V 22
GND
N.C. BLUE
(G1)
S-ABL
12V
IK
HEATER
GND
210V
LG4
TO LB-BOARD (LB1)
140V
R969 39 1/2W
C964 16V 100
C958 160V 10
R964 1.2k
R970 8.2
JS21
D962 MA2C18800E
C955 200V 0.01
Q961 2SA0720ARA
R978 100k
R922 10k
Q955 2SA1535ALB
C973 0.01 200V
R965 68K
L953 EXCELSA35T
L954 EXCELSA35T
18V
L904 56
40V
C952 50V 100
R902 68k
R903 15k
R908 2.7k
C932 50V 100
R954 1.5k 1/2W
Q953 2SC1318AWA
18V 40V
C974 50V 10
(P100:47u)
R917 47
Q908 2SC1318AWA
R953 270
R960 10
C920 0.01
R920 180
Q903 2SC3311A0A B1AACF000052
R904 4.7k
C902 16V 100
R951 270
Q951 2SA0720WA
L951 EXCELSA35T
+65V
C961 160V 10
L956 EXCELSA35T
R967 68K
TPS1
R901 820 1/2W
C901 16V 10
Q902 2SC3311A0A B1AACF000052
R952 1.5k 1/2W
Q952 2SC1318AWA
Q956 2SC3944AW0LB
R923 10k
C972 50V 0.01
C962 50V 0.01
Q962 2SC1318ARA
R916 390
R905 4.7k
R907 150
C907 120p
R955 270
Q954 2SA0720WA
JS22
R968 1.2K
R971 8.2
C911 16V 100
R906 100
C906 16V 100
R956
R972 39 1/2W
C966 16V 100
Q907 2SC3311A0A B1AACF000052
R914 5.6K
R915 1.8K
C910 50V 10
JS15
R973 47 1/2W
C967 16V 220
R966 270 1W
D953 B0ZA20000054
LG7 VM COIL (B)
VM COIL TLHX015
R977 270 1W
LG6 VM COIL (G)
VM COIL TLHX015
R976 270 1W
LG5 VM COIL (R)
VM COIL TLHX015
R975 270 1W
A
B
C
D
E
1
2
3
4
5
6
7

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ LG-Board Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ LG-Board Schematic Diagram


LB-BOARD TNPA2334AF (51inch Series)
TNPA2334AG (43inch Series)
TO LG-BOARD (LG4)
LB1
GND
BLUE
(G1)
S-ABL
12V
1K
N.C.
HEATER
GND
210V
LB2
BLUE
GND
L391 100
TPLB3
TPLB5
R373 2.7k
R399 56k
L392 15
R391 100 1/2W
Q394 B1BAAN000025
D393 MA2C165001VT
D394 MA2C165001VT
D395
D396
C393 500V 0.01
C391 250V 10
Q393 2SC3942000LB
R395 47
R390 820
C364 35V 47
C374 0.01
L394 10
R393 33 1/2W
R394 33 1/2W
Q396 B1BCAN000004
Q395 B1BCAN000004
R392 100 1/2W
C397 0.1
D397 MA2C165001VT
D390 MA2C18800E
D388 MA2C18800E
R398 47k
L393 6.8
R372 330 1/2W
TPLB1
D389 MA2C18800E
D387 MA2C18800E
TPLB2
D3371 B0AAED000003
Q3371 2SB1030AWA
R3377 3.9k
12V
R3376 8.2k
C3373 0.01
R3375 3.9k
C3372 100V 22
D3372 B0AAED000003
CRT (BLUE) P16LSG03BMB
H
HG
K
G1
G2
FOCUS
EHT (TO FBT)
C396 2kV 1000P
LB20
JK391 K3B10CA00006
1KV
R396 JW
LB5
FOCUS PACK G2
J55

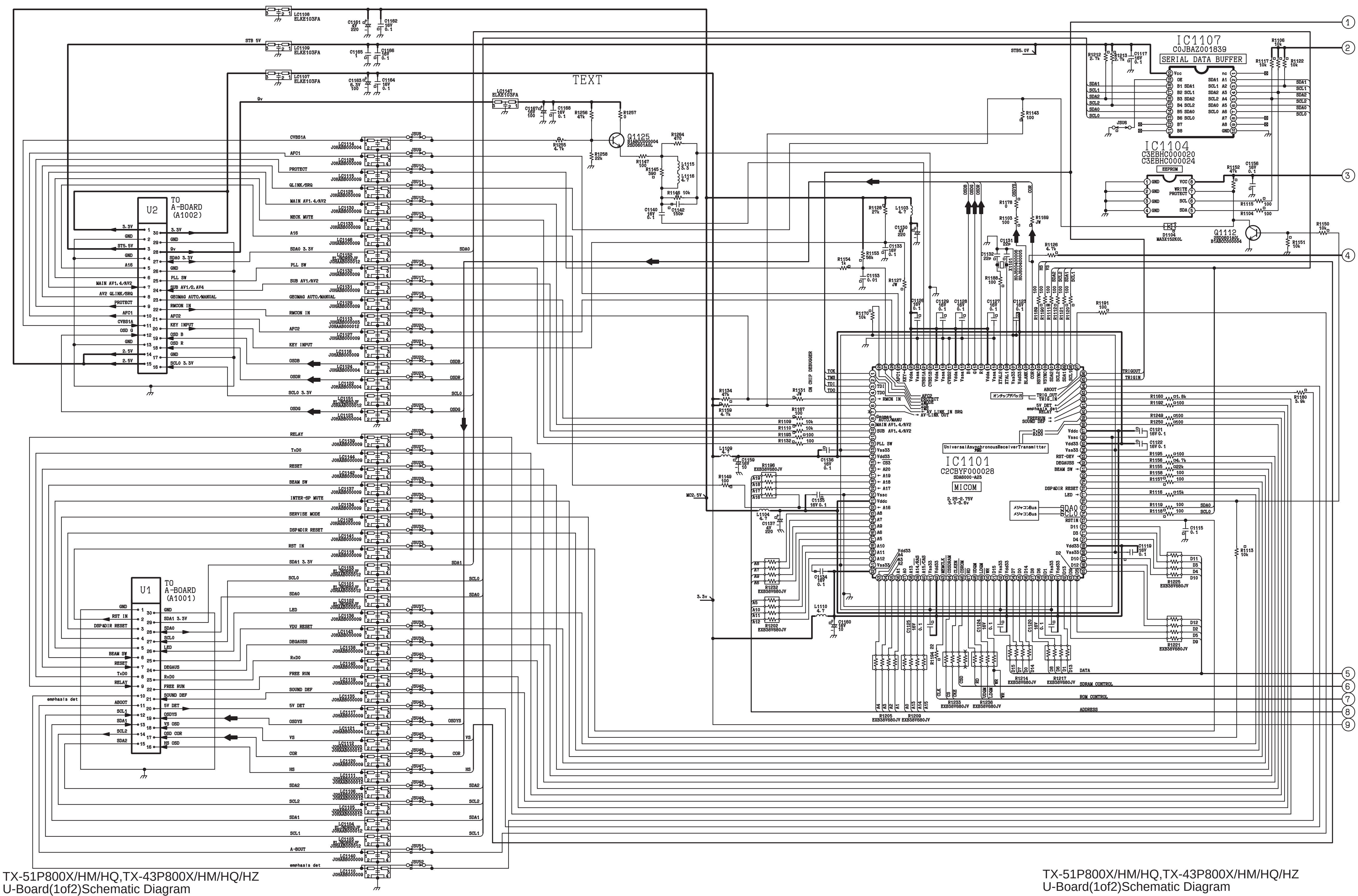

LR-BOARD TNPA2332AF (51inch Series)
TNPA2332AG (43inch Series)
CRT (RED) P16LSG03RJA (51", 47")
A1D018000003 (43")
H
HG
K
G1
G2
R359 56k
L352 10
Q354 B1BAAN000025
R366 100 1/2W
D360 MA2C18800E
D361 MA2C18800E
R357 2.7k
C353 500V 0.01
C351 250V 10
D353 MA2C165001VT
D354 MA2C165001VT
D355
D356
R368 33 1/2W
C357 0.1
D357 MA2C165001VT
R358 47k
L353 1.0
R362 330 1/2W
TPLR1
(TO FBT)
FOCUS (TO FBT)
EHT
C356 1000P 2kV
LR20
D362 MA2C18800E
D363 MA2C18800E
TPLR2
L351 100
Q353 2SC3942000LB
R355 47
R365 820
C360 35V 47
C361 0.01
L354 6.8
R369 33 1/2W
Q356 B1BCAN000004
Q355 B1BCAN000004
R367 100 1/2W
JK351 K3B10CA00006
R356 JW
1kV
JS1
LR2
RED
GND
12V
D3351 B0AAED000003
Q3351 2SB1030AWA
R3357 3.9k
220V
R3356 8.2k
C3353 0.01
R3355 3.9k
C3352 100V 22
D3352 B0AAED000003
LR5
FOCUS PACK G2
LR1
GND
RED
(G1)
S-ABL
12V
HEATER
GND
210V
TO LG-BOARD (LG3)


P-BOARD
TNPA2945AB (TX-51P800X)
TNPA2945 (TX-51P800HM/HQ)
TXN/P10HZV (TX-43P800X)
TXN/P10HWV (TX-43P800HM/HQ)
TXN/P10HYV (TX-43P800HZ)
TO K-BOARD (K1)
FROM AC MAIN-SW
TO AC MAIN-SW
IC881
MIP0254SPSCF
SWITCHING REG. (STAND BY)
370V
560V
6.5V
T881
ETS24KC156AG
TO D-BOARD (D21)
P11
STANDBY 6.5V
STANDBY 6.5V
AC RELAY
GND
GND
12V
12V
GND
TO D-BOARD (D22)
P12
140V
140V
140V
NC
GND
GND
GND
PROTECT
TO D-BOARD (D23)
P13
-18V
-18V
CONV. GND
CONV. GND
CONV. GND
18V
18V
GND
TO D-BOARD (D24)
P14
8V
8V
8V
GND
SOUND GND
SOUND GND
SOUND 34V
SOUND 34V
TO D-BOARD (D24)
P15
GND
GND
GND
NC
TUNER GND
TUNER GND
TUNER GND
TUNER GND
COLD
HOT
LIVE CIRCUIT
IC802
STR83145LF55
X-models only
RL802
K6B1AGA00043
RL801
K6B1ADA00010
Q852
2SC3311A0A
D801
B0EBNT000002
D4SB80Z
HEAT SINK
JSP10
JSP17
JSP16
370V
540V
Q805
2SK2123000LB
IC801
C5HABZZ00014
TUC0013
PROCESS VOLTAGE CONTROL
START
O.V.P
REG
LATCH
T.S.D
DRV.REG =6.3V
DRIVE
O.S.C
Vin
Drain
Source
OCP/FB
GND
T801
G4D4AC000068
35V
8V
-18V
+140V
140V
12V
Q891
2SC1473TA
IC810
AN7812LB
AVR 12V
IC808
C0EAS0000025
SHUNT REG
Q849
2SA1961GQAHW
Q807
B3PAA0000153
F801
K5D502BL0003
250V, T5AL
BROWN
BLUE
TO AC
P1
P2
P4
A
B
C
D
E

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ P-Board Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
P-Board Schematic Diagram

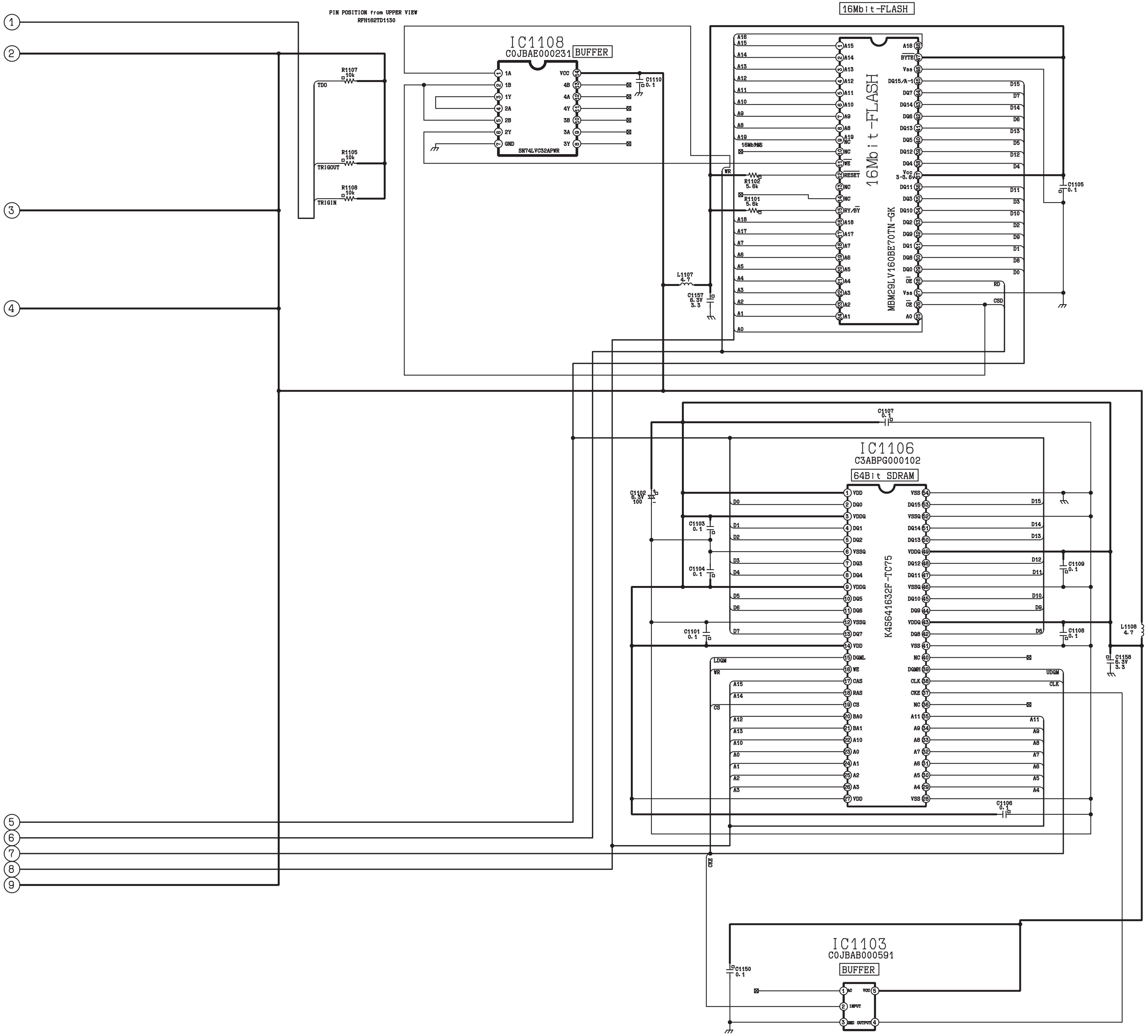
⚠ U-BOARD (1/2)
TZTNP010JBV (51inch Series)
TZTNP030HWV (43inch Series)


TEXT
IC1107
C0JBAZ001839
SERIAL DATA BUFFER
IC1104
C3EBHC000020
C3EBHC000024
EEPROM
IC1101
C2CBYF000028
SDA6000-A23
MICOM
U2
TO A-BOARD (A1002)
U1
TO A-BOARD (A1001)
Q1125
Q1112
ON CHIP DEBUGGER
UniversalAsynchronousReceiverTransmitter
STB 5V
9v
STB5.0V
MC2.5V
3.3v
DATA
SDRAM CONTROL
ROM CONTROL
ADDRESS
①
②
③
④
⑤
⑥
⑦
⑧
⑨

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(1of2)Schematic Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(1of2)Schematic Diagram

⚠ U-BOARD (2/2)
TZTNP010JBV (51inch Series)
TZTNP030HWV (43inch Series)



①
②
③
④
⑤
⑥
⑦
⑧
⑨
PIN POSITION from UPPER VIEW
RFH162TD1130
R1107 10k
TDO
R1105 10k
TRIGOUT
R1108 10k
TRIGIN
IC1108
C0JBAE000231
BUFFER
SN74LVC32APWR
1A
1B
1Y
2A
2B
2Y
GND
VCC
4B
4A
4Y
3B
3A
3Y
C1110 0.1
IC1102
C3FBMD000050
16Mbit-FLASH
16Mbit-FLASH
MBM29LV160BE70TN-GK
16MbNB
WR
R1102 5.6k
R1101 5.6k
RESET
RY/BY
BYTE
Vss
Vcc 3-3.6V
DQ15/A-1
OE
CE
WE
RD
CSD
C1105 0.1
L1107 4.7
C1157 6.3V 3.3
IC1106
C3ABPG000102
64Bit SDRAM
K4S641632F-TC75
C1107 0.1
C1102 6.3V 100
C1103 0.1
C1104 0.1
C1101 0.1
C1109 0.1
C1108 0.1
C1106 0.1
L1106 4.7
C1158 6.3V 3.3
VDD
VDDQ
VSSQ
VSS
DQML
DQMH
WE
CAS
RAS
CS
BA0
BA1
CLK
CKE
NC
LDQM
UDQM
CKE
IC1103
C0JBAB000591
BUFFER
C1150 0.1
NC
INPUT
GND
VCC
OUTPUT
9
10
11
12
13
14
15
16
17

14 Schematic Diagram

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

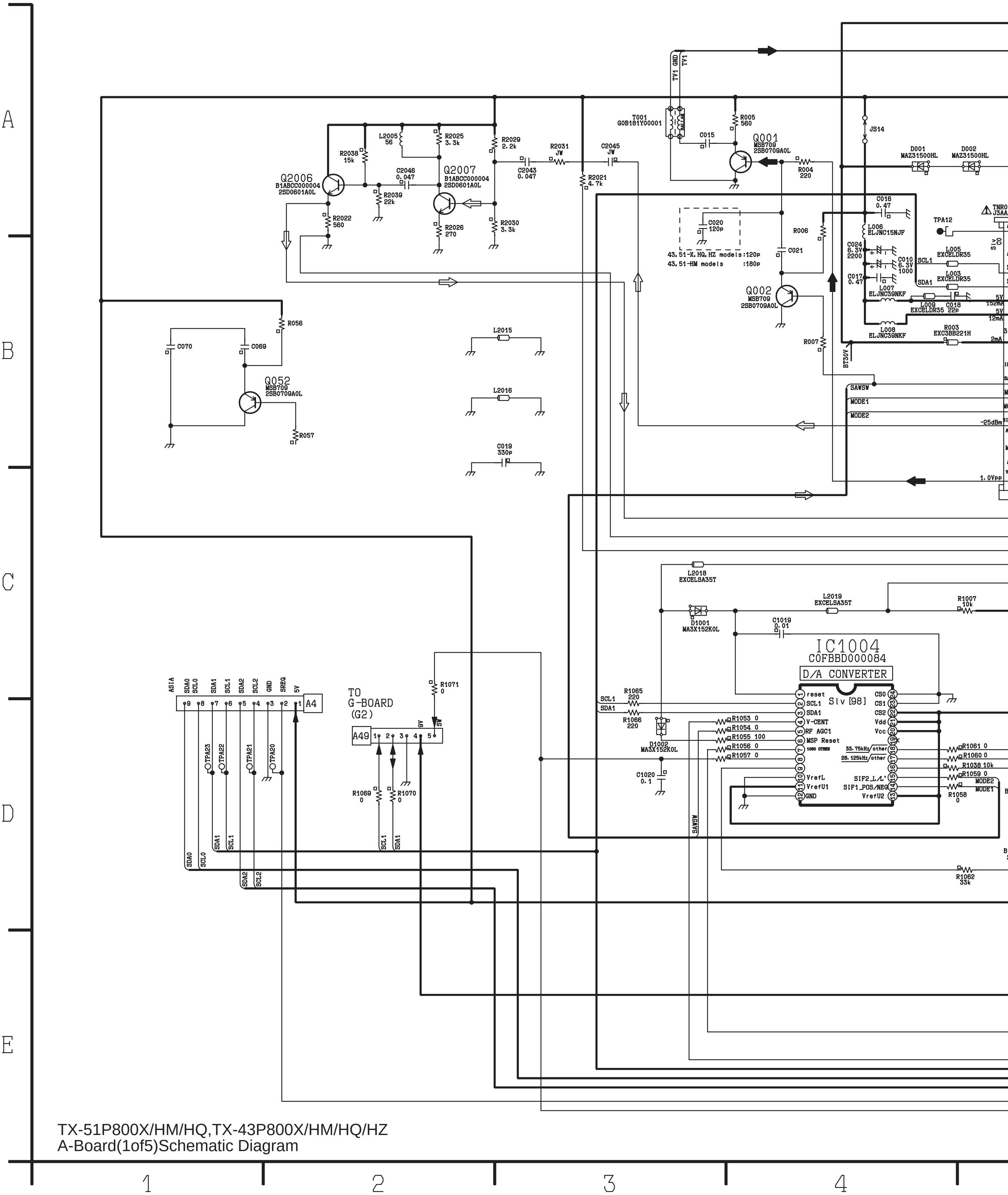
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ○ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ◪ : Wire Wound ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is µF, unless otherwise noted.
   ⊗ : Temperature Compensation +‖ : Electrolytic
   Ⓜ : Polyester NP‖ : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene Ⓩ : Z-Type
3. Coil
   Unit of inductance is µF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....
   TX-43/51P800HM/HQ, TX-43P800HZ : AC 220V-240V, 50/60Hz
   TX-43/51P800X : AC 110V-240V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

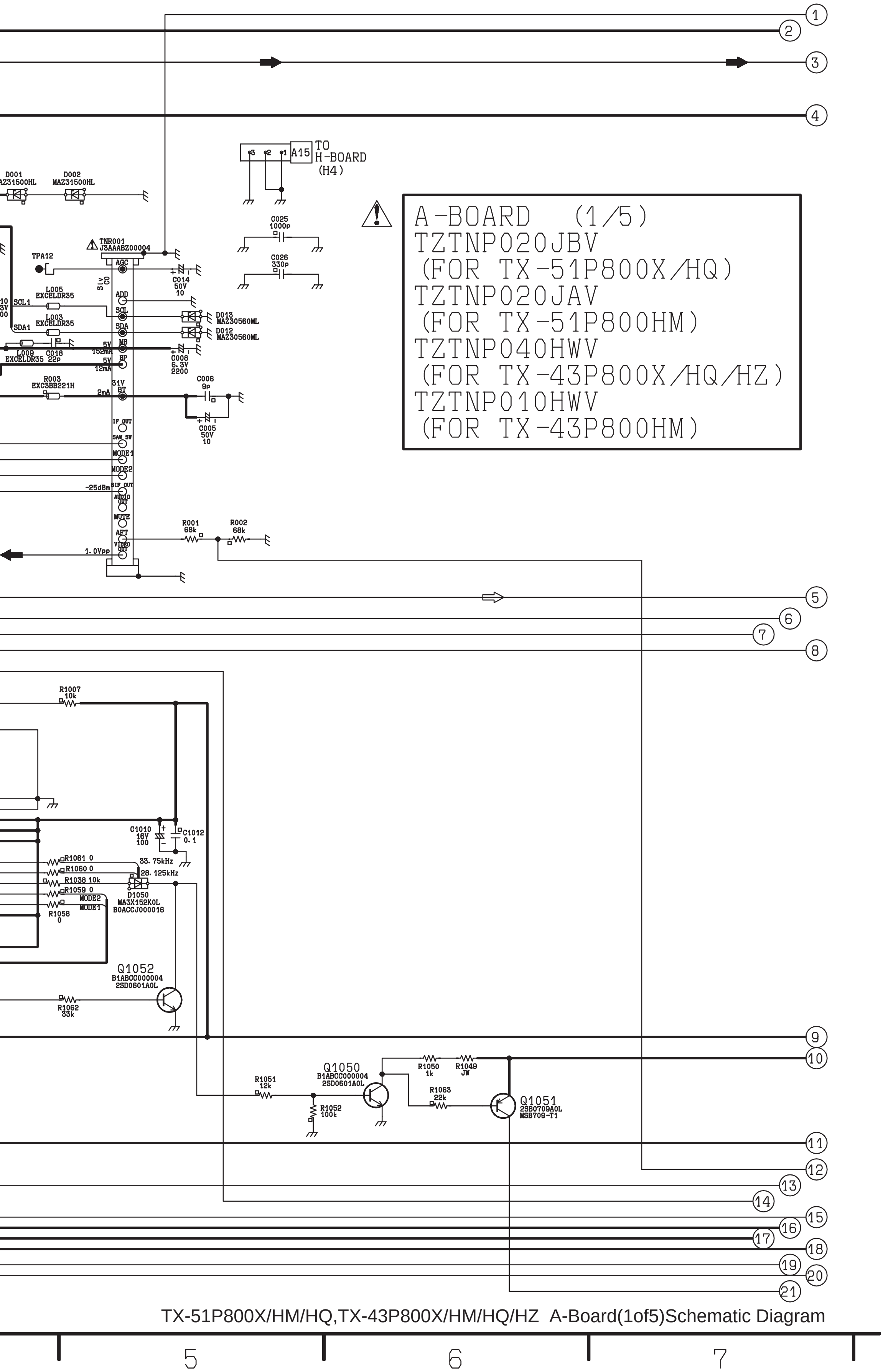
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

14.2. A-Board (1 of 5) Schematic Diagram



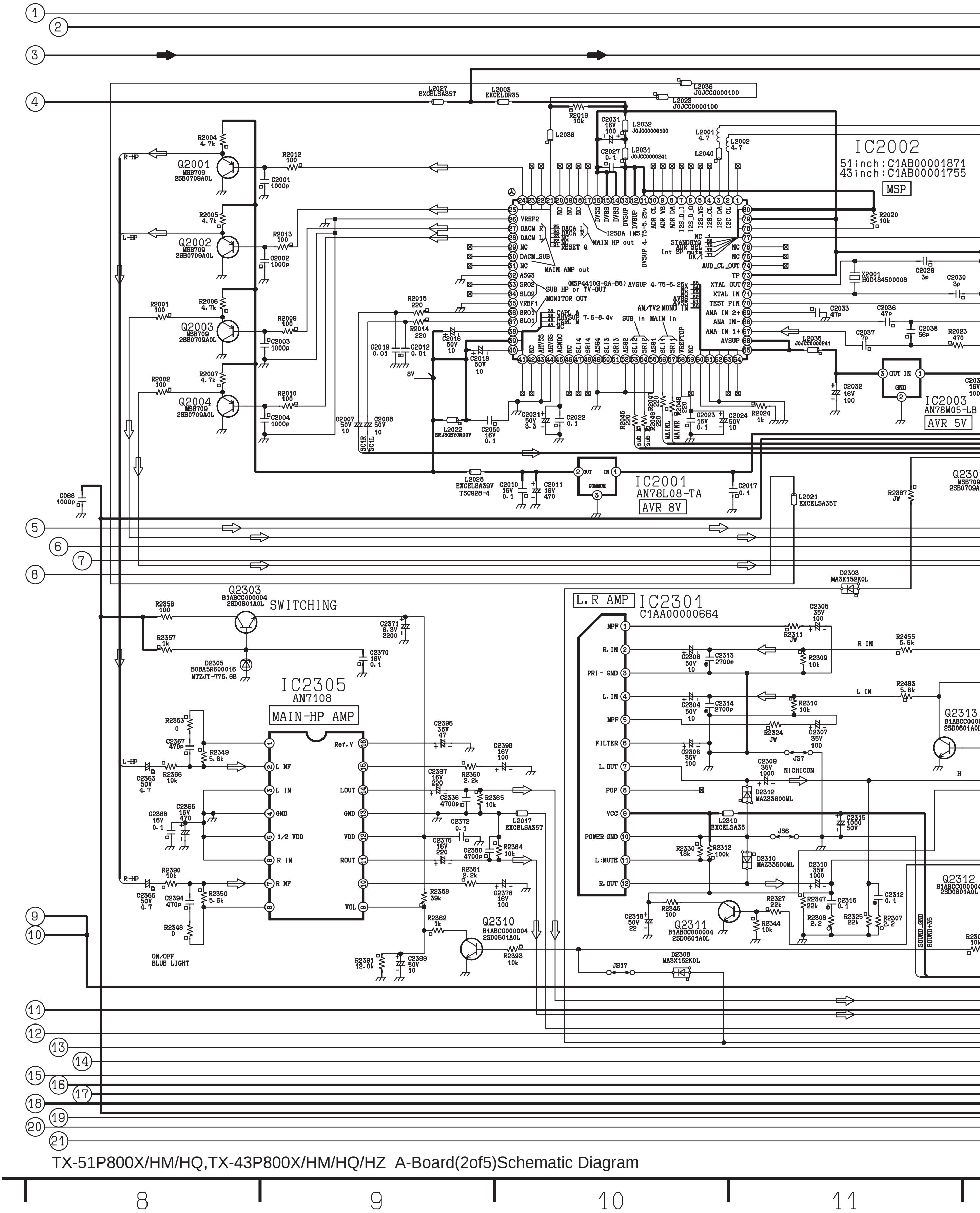
A
B
C
D
E
1
2
3
4
Q2006
B1ABCC000004
2SD0601A0L
Q2007
B1ABCC000004
2SD0601A0L
L2005 56
R2025 3.3k
R2029 2.2k
R2038 15k
C2046 0.047
R2039 22k
R2022 560
R2026 270
R2030 3.3k
C2043 0.047
R2031 JW
C2045 JW
R2021 4.7k
T001 G0B181Y00001
TV1 GND
TV1
R005 560
C015
Q001 MSB709 2SB0709A0L
R004 220
JS14
D001 MAZ31500HL
D002 MAZ31500HL
C016 0.47
TPA12
L006 ELJNC15NJF
C024 6.3V 2200
C010 6.3V 1000
SCL1
SDA1
L005 EXCELDR35
L003 EXCELDR35
C017 0.47
L007 ELJNC39NKF
L009 EXCELDR35
C018 22p
L008 ELJNC39NKF
R003 EXC3BB221H
C020 120p
43,51-X,HQ,HZ models :120p
43,51-HM models :180p
R006
C021
Q002 MSB709 2SB0709A0L
R007
BT30V
SAWSW
MODE1
MODE2
-25dBm
1.0Vpp
5V 152mA
5V 12mA
2mA
TNR0 J3AA
R056
C070
C069
Q052 MSB709 2SB0709A0L
R057
L2015
L2016
C019 330p
L2018 EXCELSA35T
L2019 EXCELSA35T
D1001 MA3X152K0L
C1019 0.01
R1007 10k
IC1004
C0FBBD000084
D/A CONVERTER
reset
SCL1
SDA1
V-CENT
RF AGC1
MSP Reset
VrefL
VrefU1
GND
CS0
CS1
CS2
Vdd
Vcc
SIF2_L/L'
SIF1_POS/NEG
VrefU2
Slv [98]
33.75kHz/other
28.125kHz/other
R1065 220
R1066 220
D1002 MA3X152K0L
R1053 0
R1054 0
R1055 100
R1056 0
R1057 0
C1020 0.1
R1061 0
R1060 0
R1038 10k
R1059 0
R1058 0
MODE2
MODE1
R1062 33k
SAWSW
ASIA
SDA0
SCL0
SDA1
SCL1
SDA2
SCL2
GND
SREQ
5V
A4
TPA23
TPA22
TPA21
TPA20
TO G-BOARD (G2)
A49
9V
5V
R1071 0
R1069 0
R1070 0

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
A-Board(1of5)Schematic Diagram

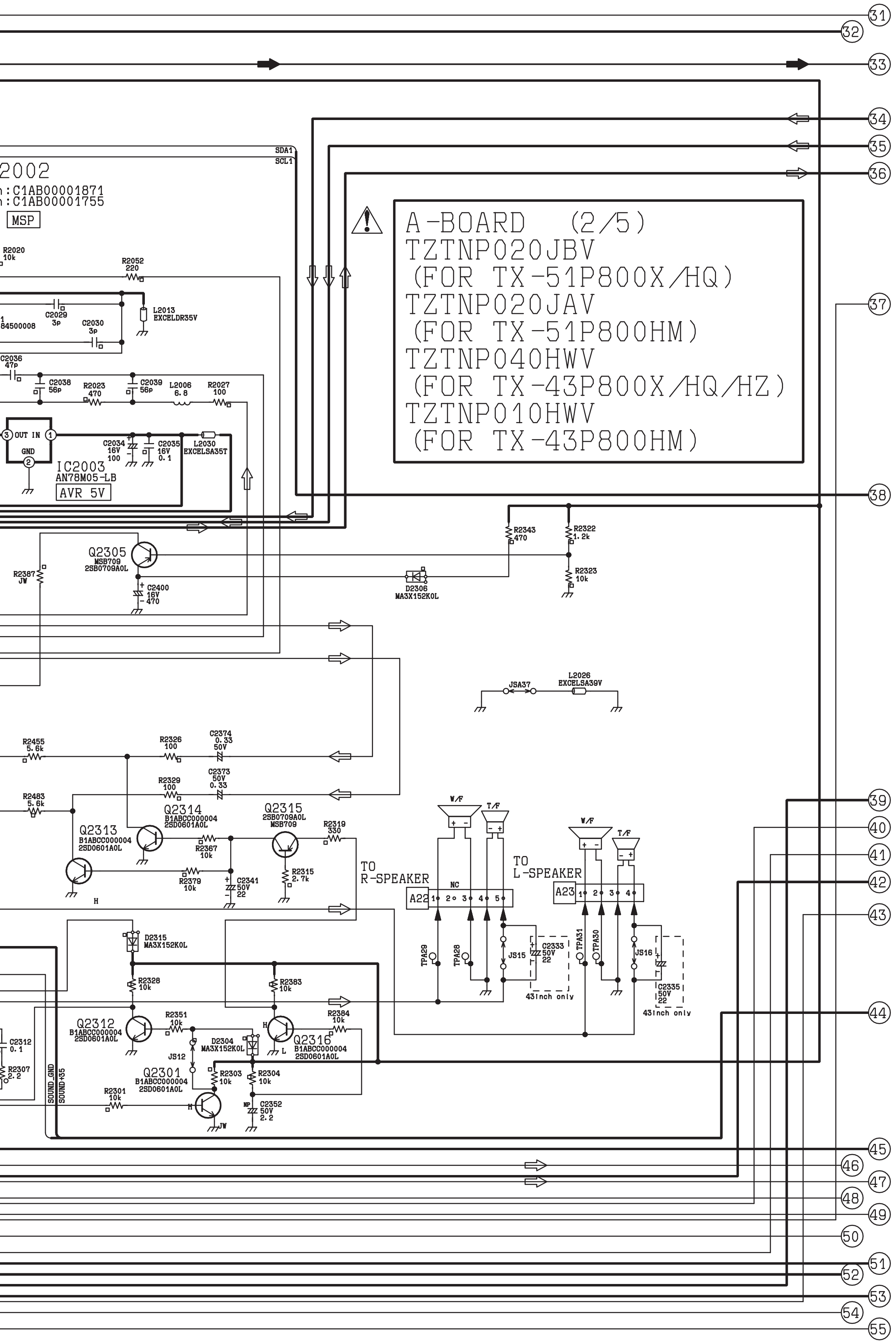

A-BOARD (1/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)
A15
TO
H-BOARD
(H4)
3
2
1
D001
MAZ31500HL
D002
MAZ31500HL
C025
1000p
C026
330p
TNR001
J3AAABZ00004
TPA12
AGC
C014
50V
10
S1V
C0
L005
EXCELDR35
SCL1
SCL
ADD
D013
MAZ30560ML
L003
EXCELDR35
SDA1
SDA
D012
MAZ30560ML
L009
EXCELDR35
C018
22p
5V
152mA
MB
C008
6.3V
2200
5V
12mA
BP
R003
EXC3BB221H
31V
BT
2mA
C006
9p
C005
50V
10
IF OUT
SAW SW
MODE1
MODE2
-25dBm
SIF OUT
AUDIO OUT
MUTE
AFT
VIDEO OUT
1.0Vpp
R001
68k
R002
68k
R1007
10k
C1010
16V
100
C1012
0.1
R1061 0
R1060 0
R1038 10k
R1059 0
R1058
0
MODE2
MODE1
33.75kHz
28.125kHz
D1050
MA3X152K0L
B0ACCJ000016
Q1052
B1ABCC000004
2SD0601A0L
R1062
33k
R1051
12k
R1052
100k
Q1050
B1ABCC000004
2SD0601A0L
R1050
1k
R1049
JW
R1063
22k
Q1051
2SB0709A0L
MSB709-T1
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
5
6
7

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(1of5)Schematic Diagram

14.3. A-Board (2 of 5) Schematic Diagram

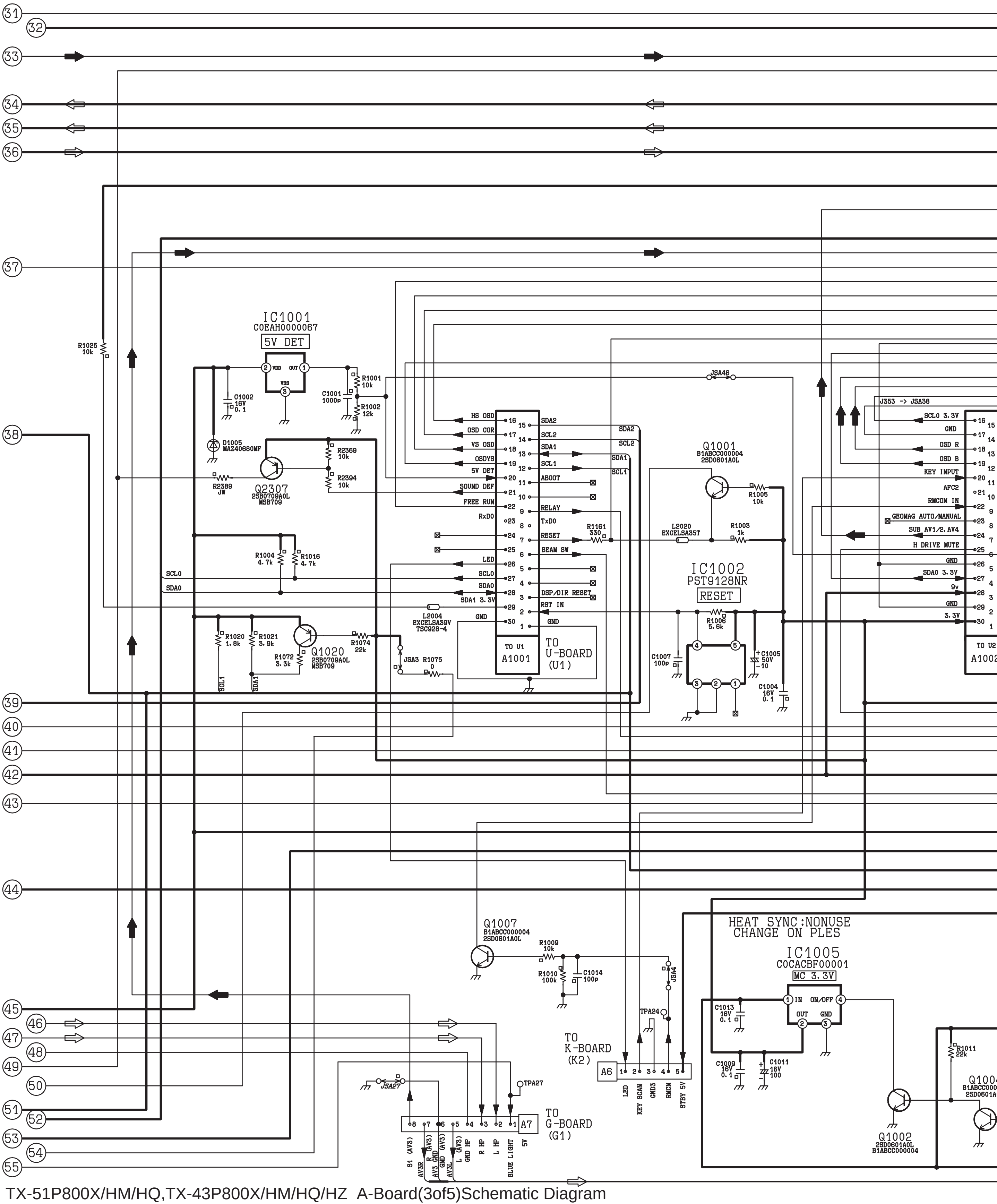

IC2002
51inch:C1AB00001871
43inch:C1AB00001755
MSP
(MSP4410G-QA-B8)
IC2001
AN78L08-TA
AVR 8V
IC2003
AN78M05-LB
AVR 5V
IC2301
C1AA00000664
L,R AMP
IC2305
AN7108
MAIN-HP AMP
Q2303
B1ABCC000004
2SD0601A0L
SWITCHING
Q2001
MSB709
2SB0709A0L
Q2002
MSB709
2SB0709A0L
Q2003
MSB709
2SB0709A0L
Q2004
MSB709
2SB0709A0L
Q2310
B1ABCC000004
2SD0601A0L
Q2311
B1ABCC000004
2SD0601A0L
Q2312
Q2313
R-HP
L-HP
L2027
EXCELSA35T
L2003
EXCELDR35
L2036
J0JCC0000100
L2023
J0JCC0000100
L2028
EXCELSA39V
TSC928-4
L2021
EXCELSA35T
L2017
EXCELSA35T
L2310
EXCELSA35
X2001
H0D184500008
D2303
MA3X152K0L
D2305
B0BA5R600016
MTZJT-77 5.6B
D2308
MA3X152K0L
D2310
MAZ33600ML
D2312
MAZ33600ML
ON/OFF
BLUE LIGHT
NICHICON
R IN
L IN
SOUND_GND
SOUND+35
8
9
10
11

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(2of5)Schematic Diagram


A-BOARD (2/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)
2002
C1AB00001871
C1AB00001755
MSP
SDA1
SCL1
R2020 10k
R2052 220
C2029 3p
C2030 3p
84500008
L2013 EXCELDR35V
C2036 47p
C2038 56p
R2023 470
C2039 56p
L2006 6.8
R2027 100
OUT IN
GND
C2034 16V 100
C2035 16V 0.1
L2030 EXCELSA35T
IC2003
AN78M05-LB
AVR 5V
Q2305
MSB709
2SB0709A0L
R2387 JW
C2400 16V 470
R2343 470
R2322 1.2k
R2323 10k
D2306 MA3X152K0L
JSA37
L2026 EXCELSA39V
R2455 5.6k
R2326 100
C2374 0.33 50V
R2329 100
C2373 50V 0.33
R2483 5.6k
Q2314
B1ABCC000004
2SD0601A0L
Q2315
2SB0709A0L
MSB709
R2319 330
Q2313
B1ABCC000004
2SD0601A0L
R2367 10k
R2379 10k
C2341 50V 22
R2315 2.7k
H
TO R-SPEAKER
TO L-SPEAKER
W/F
T/F
NC
A22
A23
TPA29
TPA28
TPA31
TPA30
JS15
C2333 50V 22
JS16
C2335 50V 22
43inch only
D2315 MA3X152K0L
R2328 10k
R2383 10k
Q2312
B1ABCC000004
2SD0601A0L
R2351 10k
D2304 MA3X152K0L
R2384 10k
Q2316
B1ABCC000004
2SD0601A0L
C2312 0.1
R2307 2.2
JS12
Q2301
B1ABCC000004
2SD0601A0L
R2303 10k
R2304 10k
R2301 10k
NP
C2352 50V 2.2
JW
SOUND_GND
SOUND+35
L
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
12
13
14

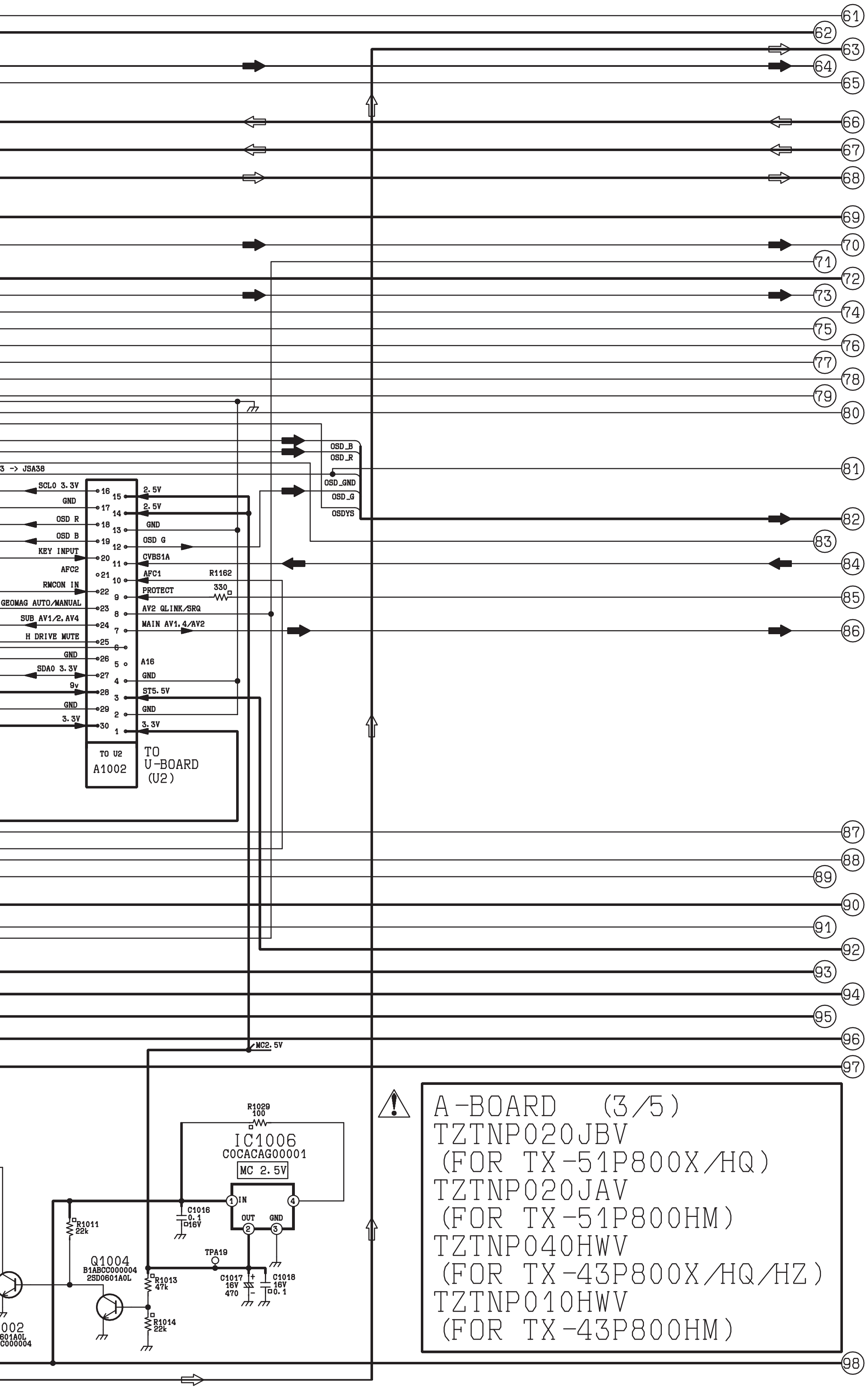
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(2of5)Schematic Diagram

14.4. A-Board (3 of 5) Schematic Diagram



IC1001
C0EAH0000067
5V DET
VDD
OUT
VSS
R1025 10k
C1002 16V 0.1
C1001 1000p
R1001 10k
R1002 12k
D1005 MAZ40680MF
R2369 10k
R2394 10k
R2389 JW
Q2307 2SB0709A0L MSB709
R1004 4.7k
R1016 4.7k
SCL0
SDA0
R1020 1.8k
R1021 3.9k
R1072 3.3k
Q1020 2SB0709A0L MSB709
R1074 22k
SCL1
SDA1
HS OSD
OSD COR
VS OSD
OSDYS
5V DET
SOUND DEF
FREE RUN
RxD0
LED
SDA1 3.3V
GND
SDA2
SCL2
ABOOT
RELAY
TxD0
RESET
BEAM SW
DSP/DIR RESET
RST IN
L2004 EXCELSA39V TSC928-4
JSA3 R1075 0
JSA46
TO U1
A1001
TO U-BOARD (U1)
R1161 330
L2020 EXCELSA35T
Q1001 B1ABCC000004 2SD0601A0L
R1005 10k
R1003 1k
IC1002 PST9128NR
RESET
R1006 5.6k
C1007 100p
C1005 50V 10
C1004 16V 0.1
J353 -> JSA38
SCL0 3.3V
OSD R
OSD B
KEY INPUT
AFC2
RMCON IN
GEOMAG AUTO/MANUAL
SUB AV1/2,AV4
H DRIVE MUTE
SDA0 3.3V
9v
3.3V
TO U2
A1002
Q1007 B1ABCC000004 2SD0601A0L
R1009 10k
R1010 100k
C1014 100p
JSA4
TPA24
TO K-BOARD (K2)
A6
LED
KEY SCAN
GND3
RMCN
STBY 5V
HEAT SYNC:NONUSE
CHANGE ON PLES
IC1005
C0CACBF00001
MC 3.3V
IN
ON/OFF
OUT
GND
C1013 16V 0.1
C1009 16V 0.1
C1011 16V 100
R1011 22k
Q1002 2SD0601A0L B1ABCC000004
JSA27
TPA27
TO G-BOARD (G1)
A7
S1 (AV3)
AV3R
R (AV3)
AV3 GND
GND (AV3)
AV3L
L (AV3)
GND HP
R HP
L HP
BLUE LIGHT
5V
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
15
16
17
18

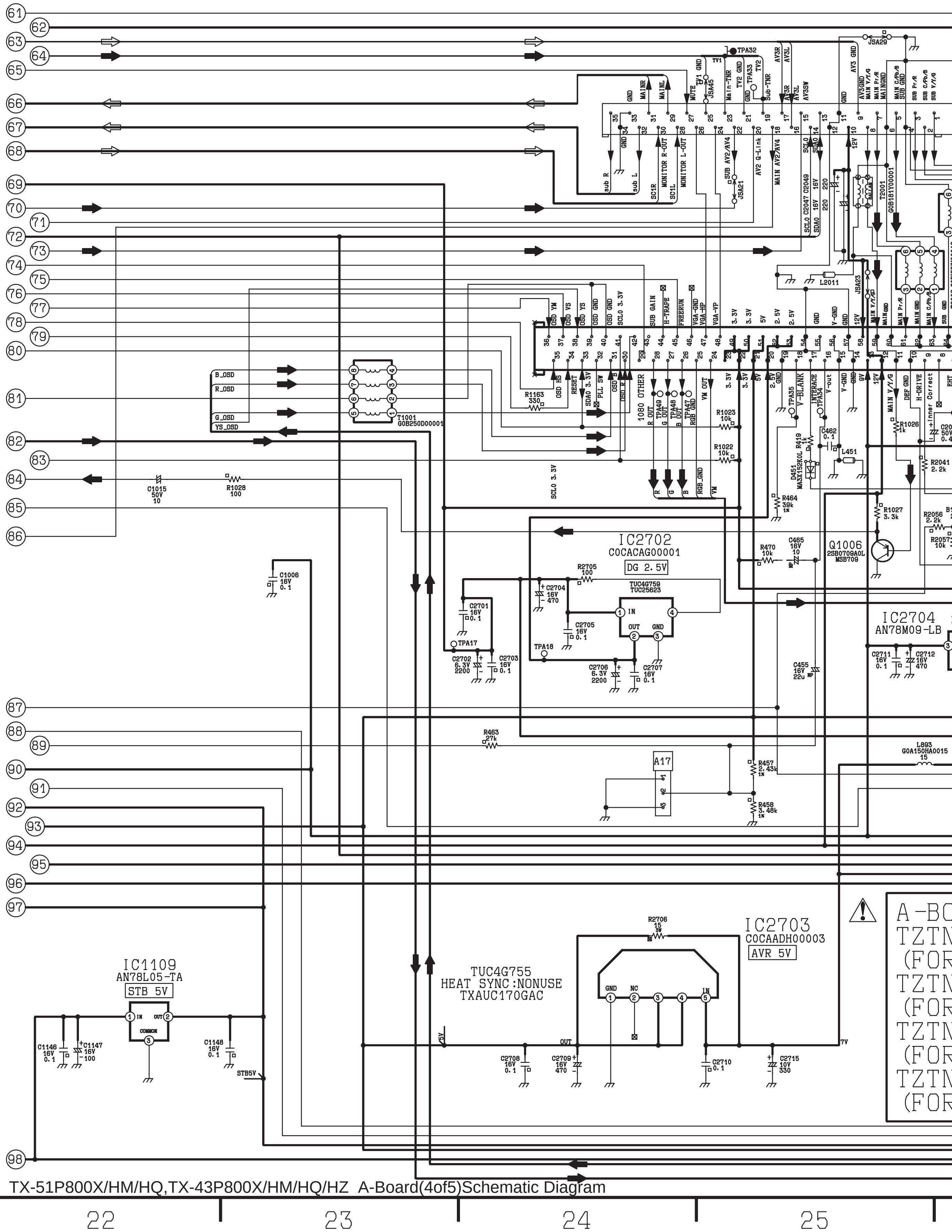
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(3of5)Schematic Diagram


61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
OSD_B
OSD_R
OSD_GND
OSD_G
OSDYS
3 -> JSA38
81
82
83
84
85
86
SCL0 3.3V
GND
OSD R
OSD B
KEY INPUT
AFC2
RMCON IN
GEOMAG AUTO/MANUAL
SUB AV1/2, AV4
H DRIVE MUTE
GND
SDA0 3.3V
9v
GND
3.3V
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
2.5V
2.5V
GND
OSD G
CVBS1A
AFC1
R1162
330
PROTECT
AV2 QLINK/SRQ
MAIN AV1, 4/AV2
A16
GND
ST5.5V
GND
3.3V
TO U2
A1002
TO
U-BOARD
(U2)
87
88
89
90
91
92
93
94
95
96
97
98
MC2.5V
R1029
100
IC1006
C0CACAG00001
MC 2.5V
IN
OUT
GND
R1011
22k
C1016
0.1
16V
TPA19
Q1004
B1ABCC000004
2SD0601A0L
R1013
47k
R1014
22k
C1017
16V
470
C1018
16V
0.1
002
601A0L
C000004
A-BOARD (3/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)

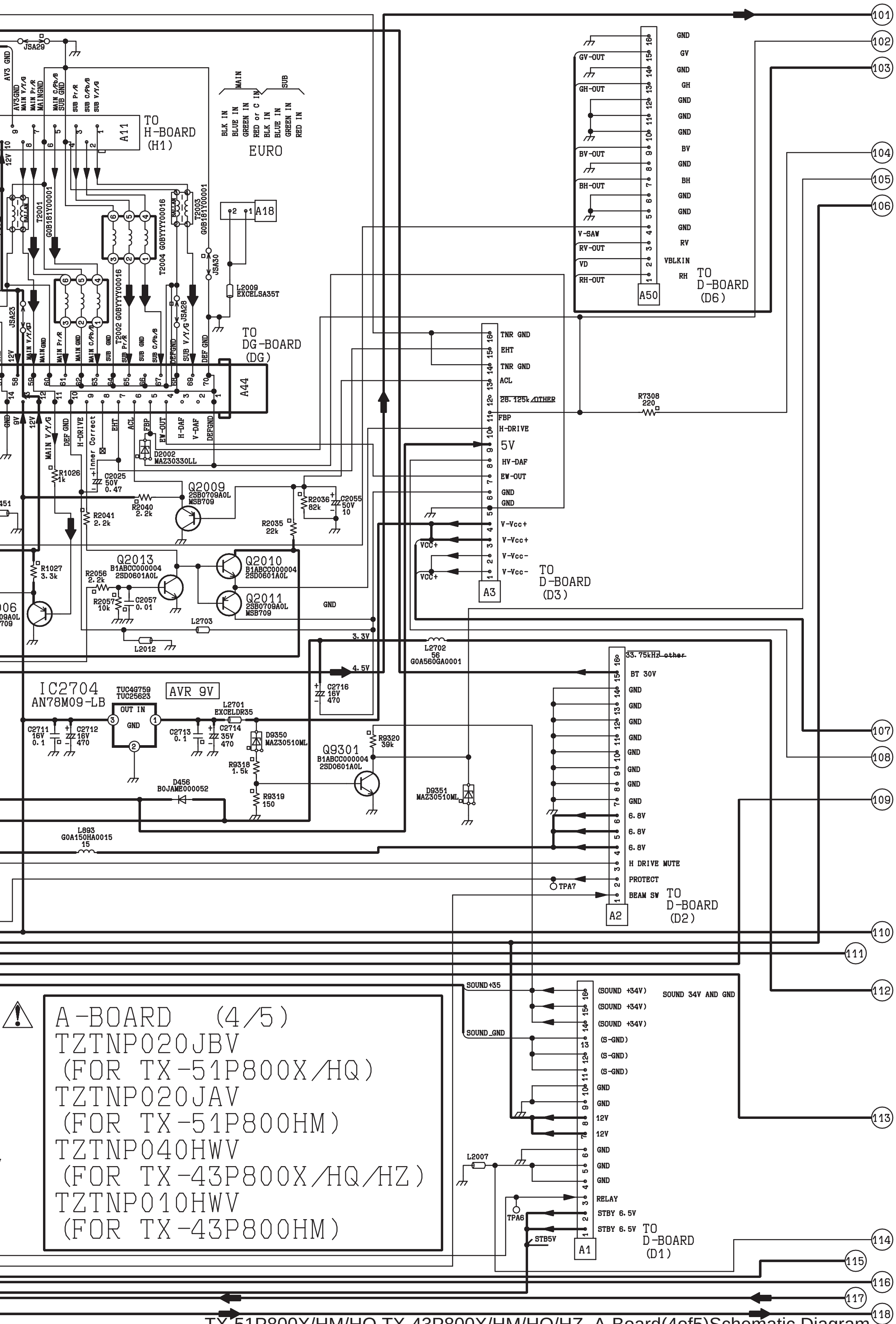
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(3of5)Schematic Diagram

19 20 21

14.5. A-Board (4 of 5) Schematic Diagram


61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
B_OSD
R_OSD
G_OSD
YS_OSD
T1001
G0B250D00001
R1163
330
C1015
50V
10
R1028
100
C1006
16V
0.1
IC2702
C0CACAG00001
DG 2.5V
TUC4G759
TUC25623
IN
OUT
GND
R2705
100
C2704
16V
470
C2701
16V
0.1
C2705
16V
0.1
TPA17
TPA18
C2702
6.3V
2200
C2703
16V
0.1
C2706
6.3V
2200
C2707
16V
0.1
R470
10k
C465
16V
10
Q1006
2SB0709A0L
MSB709
IC2704
AN78M09-LB
C2711
16V
0.1
C2712
16V
470
C455
16V
22u
R463
27k
A17
R457
2.43k
R458
3.48k
L893
G0A150HA0015
15
JSA29
TPA32
TPA33
JSA45
JSA21
JSA23
L2011
T2001
G0B181Y00001
C2047
C2049
L451
C462
0.1
D451
MA3X152K0L
R419
1k
R1023
10k
R1022
10k
R464
39k
R1027
3.3k
R1026
1k
R2041
2.2k
R2056
2.2k
R2057
10k
TPA35
TPA34
TPA49
TPA48
TPA47
1080 OTHER
SCL0 3.3V
SDA0 3.3V
PLL 5V
OSD HS
RESET
V-BLANK
INTERACE
V-out
H-DRIVE
DEF GND
MAIN V/Y/G
sub R
sub L
SC1R
SC1L
MONITOR R-OUT
MONITOR L-OUT
SUB AV2/AV4
MAIN AV2/AV4
AV2 Q-Link
MAINR
MAINL
MUTE
Main-TNR
Sub-TNR
TV1 GND
TV2 GND
AV3R
AV3L
AV3SW
AV3 GND
OSD YM
OSD VS
OSD YS
OSD GND
SUB GAIN
H-TRAPE
FREERUN
VGA-GND
VGA-HP
VGA-VP
RGB_GND
VM OUT
IC2703
C0CAADH00003
AVR 5V
R2706
15
3W
TUC4G755
HEAT SYNC:NONUSE
TXAUC170GAC
GND
NC
IN
OUT
C2708
16V
0.1
C2709
16V
470
C2710
0.1
C2715
10V
330
5V
7V
IC1109
AN78L05-TA
STB 5V
COMMON
C1146
16V
0.1
C1147
16V
100
C1148
16V
0.1
STB5V
A-BO
TZTN
(FOR
22
23
24
25

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(4of5)Schematic Diagram

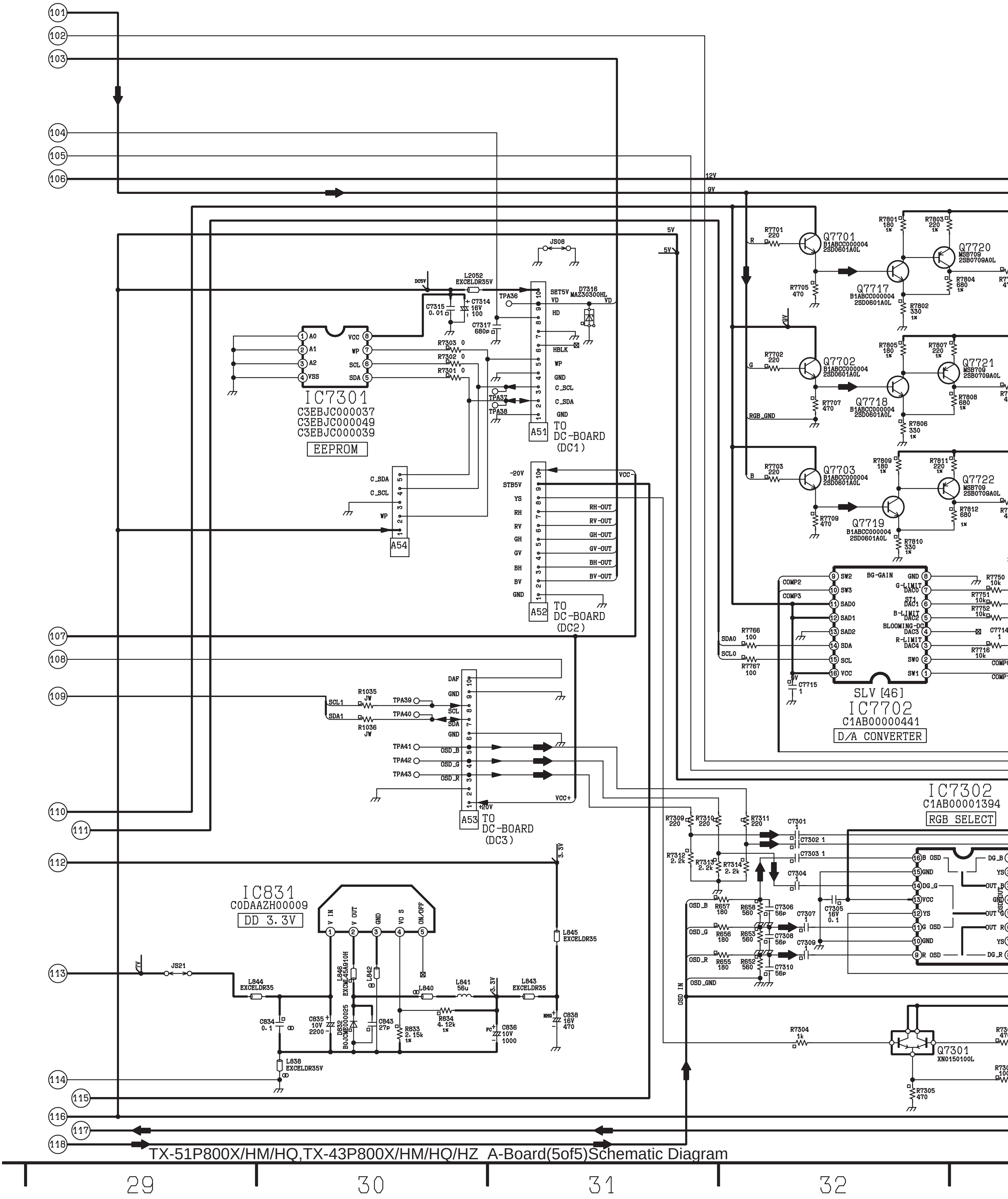

TO H-BOARD (H1)
A11
EURO
MAIN
SUB
BLK IN
BLUE IN
GREEN IN
RED or C IN
A18
JSA29
JSA30
JSA28
JSA23
T2001 G0B181Y00001
T2003 G0B181Y00001
T2004 G0BYYY00016
T2002 G0BYYY00016
L2009 EXCELSA35T
TO DG-BOARD (DG)
A44
D2002 MAZ30330LL
R1026 1k
C2025 50V 0.47
Q2009 2SB0709A0L MSB709
R2040 2.2k
R2041 2.2k
R2036 82k
C2055 50V 10
R2035 22k
Q2013 B1ABCC000004 2SD0601A0L
Q2010 B1ABCC000004 2SD0601A0L
Q2011 2SB0709A0L MSB709
R1027 3.3k
R2056 2.2k
R2057 10k
C2057 0.01
L2703
L2012
GND
IC2704 AN78M09-LB
TUC4G759 TUC25623
AVR 9V
OUT IN
C2711 16V 0.1
C2712 16V 470
C2713 0.1
C2714 35V 470
L2701 EXCELDR35
D9350 MAZ30510ML
R9318 1.5k
R9319 150
D456 B0JAME000052
Q9301 B1ABCC000004 2SD0601A0L
R9320 39k
D9351 MAZ30510ML
C2716 16V 470
3.3V
4.5V
L2702 56 G0A560GA0001
L893 G0A150HA0015 15
TNR GND
EHT
TNR GND
ACL
28.125k/OTHER
FBP
H-DRIVE
5V
HV-DAF
EW-OUT
GND
GND
V-Vcc+
V-Vcc+
V-Vcc-
V-Vcc-
VCC+
VCC+
A3
TO D-BOARD (D3)
R7308 220
GV-OUT
GH-OUT
BV-OUT
BH-OUT
V-SAW
RV-OUT
VD
RH-OUT
GND
GV
GND
GH
GND
GND
GND
BV
GND
BH
GND
GND
GND
RV
VBLKIN
RH
A50
TO D-BOARD (D6)
33.75kHz other
BT 30V
GND
6.8V
6.8V
6.8V
H DRIVE MUTE
PROTECT
BEAM SW
TPA7
A2
TO D-BOARD (D2)
SOUND+35
SOUND_GND
(SOUND +34V)
(S-GND)
SOUND 34V AND GND
12V
RELAY
STBY 6.5V
STB5V
TPA6
L2007
A1
TO D-BOARD (D1)
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118

⚠ A-BOARD (4/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)

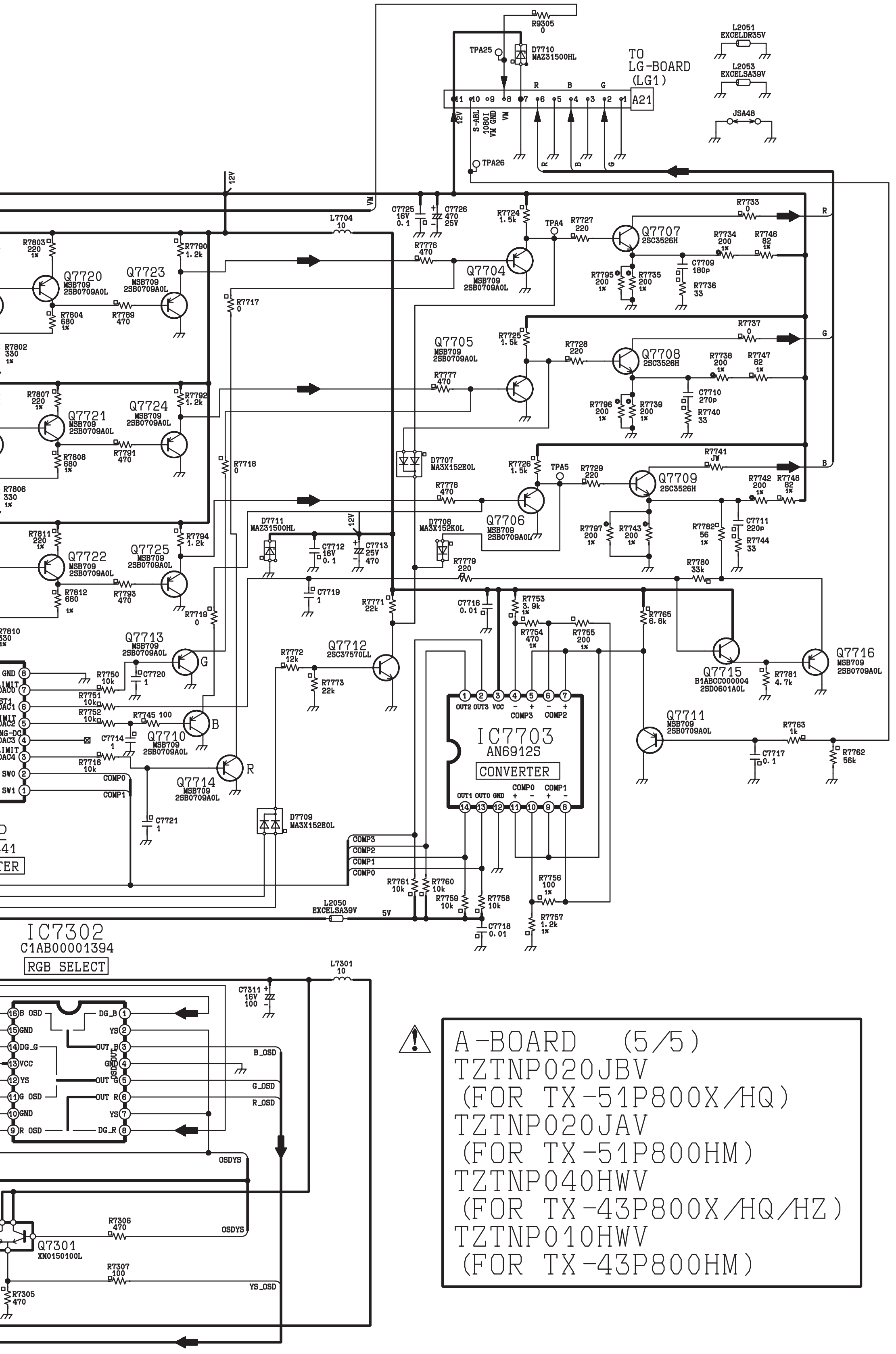
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(4of5)Schematic Diagram

26 27 28

14.6. A-Board (5 of 5) Schematic Diagram


101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
12V
9V
5V
DC5V
L2052
EXCELDR35V
C7315
0.01
C7314
16V
100
C7317
680p
TPA36
JS08
D7316
MAZ30300HL
SET5V
VD
HD
HBLK
WP
GND
C_SCL
C_SDA
TPA37
TPA38
A51
TO
DC-BOARD
(DC1)
R7303 0
R7302 0
R7301 0
A0
A1
A2
VSS
VCC
SCL
SDA
IC7301
C3EBJC000037
C3EBJC000049
C3EBJC000039
EEPROM
A54
VCC-
-20V
STB5V
YS
RH
RV
GH
GV
BH
BV
RH-OUT
RV-OUT
GH-OUT
GV-OUT
BH-OUT
BV-OUT
A52
TO
DC-BOARD
(DC2)
DAF
SCL1
SDA1
R1035
JW
R1036
JW
TPA39
TPA40
TPA41
TPA42
TPA43
OSD_B
OSD_G
OSD_R
VCC+
+20V
A53
TO
DC-BOARD
(DC3)
IC831
C0DAAZH00009
DD 3.3V
V IN
V OUT
VO S
ON/OFF
3.3V
JS21
L844
EXCELDR35
L846
EXCML45A910H
L842
L840
L841
56u
L843
EXCELDR35
L845
EXCELDR35
C834
0.1
C835
10V
2200
D832
B0JCME000025
C843
27p
R833
2.15k
1%
R834
4.12k
1%
C836
10V
1000
C838
16V
470
L838
EXCELDR35V
R7701
220
R7702
220
R7703
220
Q7701
B1ABCC000004
2SD0601A0L
Q7702
B1ABCC000004
2SD0601A0L
Q7703
B1ABCC000004
2SD0601A0L
R7705
470
R7707
470
R7709
470
Q7717
B1ABCC000004
2SD0601A0L
Q7718
B1ABCC000004
2SD0601A0L
Q7719
B1ABCC000004
2SD0601A0L
R7801
180
R7803
220
R7805
180
R7807
220
R7809
180
R7811
220
Q7720
MSB709
2SB0709A0L
Q7721
MSB709
2SB0709A0L
Q7722
MSB709
2SB0709A0L
R7804
680
R7808
680
R7812
680
R7802
330
R7806
330
R7810
330
RGB_GND
COMP2
COMP3
SDA0
SCL0
R7766
100
R7767
100
C7715
1
SW2
SW3
SAD0
SAD1
SAD2
SDA
SCL
VCC
BG-GAIN
G-LIMIT
DAC0
ST1
DAC1
B-LIMIT
DAC2
BLOOMING-DC
DAC3
R-LIMIT
DAC4
SW0
SW1
R7750
10k
R7751
10k
R7752
10k
R7716
10k
SLV [46]
IC7702
C1AB00000441
D/A CONVERTER
IC7302
C1AB00001394
RGB SELECT
R7309
220
R7310
220
R7311
220
R7312
2.2k
R7313
2.2k
R7314
2.2k
C7301
C7302
C7303
C7304
C7305
16V
0.1
C7306
56p
C7307
C7308
56p
C7309
C7310
56p
R657
180
R656
180
R655
180
R658
560
R653
560
R652
560
OSD_GND
OSD IN
B OSD
GND
DG_G
VCC
YS
G OSD
R OSD
DG_B
DG_R
R7304
1k
Q7301
XN0150100L
R7305
470
29
30
31
32

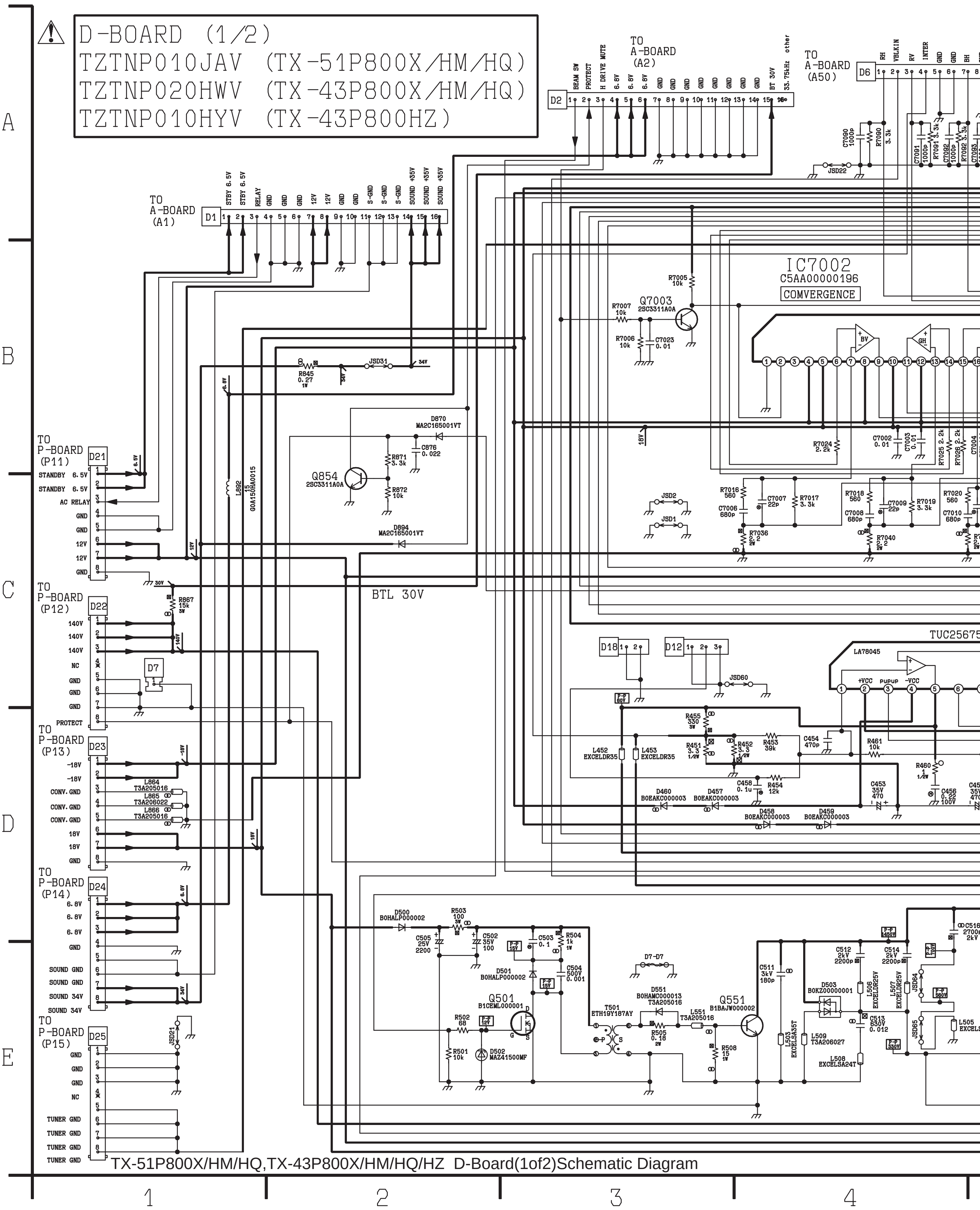
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(5of5)Schematic Diagram


TO LG-BOARD (LG1)
A21
R9305 0
TPA25
D7710 MAZ31500HL
TPA26
L2051 EXCELDR35V
L2053 EXCELSA39V
JSA48
12V
VM
L7704 10
C7725 16V 0.1
C7726 470 25V
Q7720 MSB709 2SB0709A0L
Q7723 MSB709 2SB0709A0L
Q7721 MSB709 2SB0709A0L
Q7724 MSB709 2SB0709A0L
Q7722 MSB709 2SB0709A0L
Q7725 MSB709 2SB0709A0L
Q7704 MSB709 2SB0709A0L
Q7705 MSB709 2SB0709A0L
Q7706 MSB709 2SB0709A0L
Q7707 2SC3526H
Q7708 2SC3526H
Q7709 2SC3526H
TPA4
TPA5
D7707 MA3X152E0L
D7708 MA3X152K0L
D7711 MAZ31500HL
D7709 MA3X152E0L
Q7712 2SC3757OLL
Q7713 MSB709 2SB0709A0L
Q7710 MSB709 2SB0709A0L
Q7714 MSB709 2SB0709A0L
Q7715 B1ABCC000004 2SD0601A0L
Q7716 MSB709 2SB0709A0L
Q7711 MSB709 2SB0709A0L
IC7703 AN6912S CONVERTER
COMP0 COMP1 COMP2 COMP3
L2050 EXCELSA39V
5V
IC7302 C1AB00001394 RGB SELECT
L7301 10
C7311 16V 100
B_OSD G_OSD R_OSD OSDYS YS_OSD
Q7301 XN0150100L
R7306 470
R7307 100
R7305 470
R G B
33
34
35

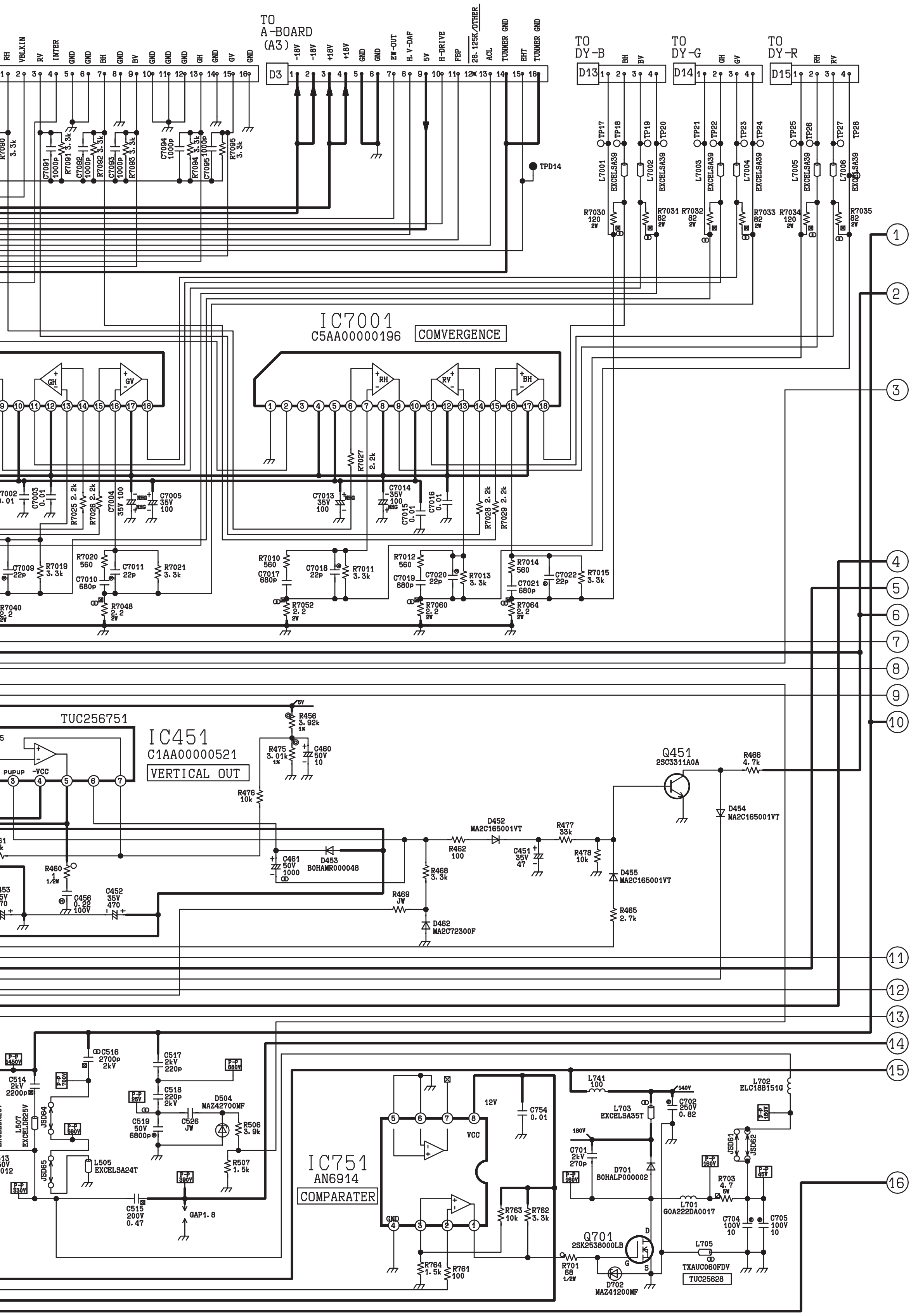
A-BOARD (5/5)
TZTNP020JBV
(FOR TX-51P800X/HQ)
TZTNP020JAV
(FOR TX-51P800HM)
TZTNP040HWV
(FOR TX-43P800X/HQ/HZ)
TZTNP010HWV
(FOR TX-43P800HM)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ A-Board(5of5)Schematic Diagram

14.7. D-Board (1 of 2) Schematic Diagram


D-BOARD (1/2)
TZTNP010JAV (TX-51P800X/HM/HQ)
TZTNP020HWV (TX-43P800X/HM/HQ)
TZTNP010HYV (TX-43P800HZ)
A
B
C
D
E
1
2
3
4
TO A-BOARD (A1)
D1
STBY 6.5V
STBY 6.5V
RELAY
GND
GND
GND
12V
12V
GND
GND
S-GND
S-GND
S-GND
SOUND +35V
SOUND +35V
SOUND +35V
TO A-BOARD (A2)
D2
BEAM SW
PROTECT
H DRIVE MUTE
6.8V
6.8V
6.8V
GND
BT 30V
33.75kHz other
TO A-BOARD (A50)
D6
RH
VELKIN
RV
INTER
GND
GND
BH
C7090 1000p
R7090 3.3k
C7091 1000p
R7091 3.3k
C7092 1000p
R7092 3.3k
JSD22
IC7002
C5AA00000196
COMVERGENCE
R7005 10k
Q7003 2SC3311A0A
R7007 10k
R7006 10k
C7023 0.01
BV
GH
18V
R7024 2.2k
C7002 0.01
C7003 0.01
R7025 2.2k
R7026 2.2k
R7016 560
C7006 680p
C7007 22p
R7017 3.3k
R7018 560
C7008 680p
C7009 22p
R7019 3.3k
R7020 560
C7010 680p
R7036 2.2 2W
R7040 2.2 2W
JSD2
JSD1
R845 0.27 1W
34V
JSD31
6.8V
L892 15 G0A150HA0015
D870 MA2C165001VT
R871 3.3k
C876 0.022
Q854 2SC3311A0A
R872 10k
D894 MA2C165001VT
12V
TO P-BOARD (P11)
D21
STANDBY 6.5V
STANDBY 6.5V
AC RELAY
GND
GND
12V
12V
GND
30V
R867 15k 3W
BTL 30V
TO P-BOARD (P12)
D22
140V
140V
140V
NC
GND
GND
GND
PROTECT
D7
TO P-BOARD (P13)
D23
-18V
-18V
CONV.GND
CONV.GND
CONV.GND
18V
18V
GND
L864 T3A205016
L865 T3A206022
L866 T3A205016
TO P-BOARD (P14)
D24
6.8V
6.8V
6.8V
GND
SOUND GND
SOUND GND
SOUND 34V
SOUND 34V
TO P-BOARD (P15)
D25
JSD21
GND
GND
GND
NC
TUNER GND
TUNER GND
TUNER GND
TUNER GND
D18
D12
JSD60
TUC25675
LA78045
+VCC
PUPUP
-VCC
R455 330 3W
R451 3.3 1/2W
R452 3.3 1/2W
R453 39k
C454 470p
R461 10k
R460 1 1/2W
L452 EXCELDR35
L453 EXCELDR35
C458 0.1u
R454 12k
C453 35V 470
C456 0.22 100V
D460 B0EAKC000003
D457 B0EAKC000003
D458 B0EAKC000003
D459 B0EAKC000003
D500 B0HALP000002
R503 100 3W
C505 25V 2200
C502 35V 100
C503 0.1
R504 1k 1W
15V
D501 B0HALP000002
C504 500V 0.001
Q501 B1CEML000001
R502 68
R501 10k
D502 MAZ41500MF
12V
D7-D7
D551 B0HAMC000013 T3A205016
T501 ETH19Y187AY
R505 0.18 2W
L551 T3A205016
Q551 B1BAJW000002
R508 15 1W
C511 3kV 180p
L503 EXCELSA35T
C512 2kV 2200p
D503 B0KZ00000001
L506 EXCELDR25V
L507 EXCELDR25V
JSD64
C514 2kV 2200p
C513 630V 0.012
L509 T3A206027
L508 EXCELSA24T
JSD65
L505
C516 2700p 2kV
450V
560V
330V

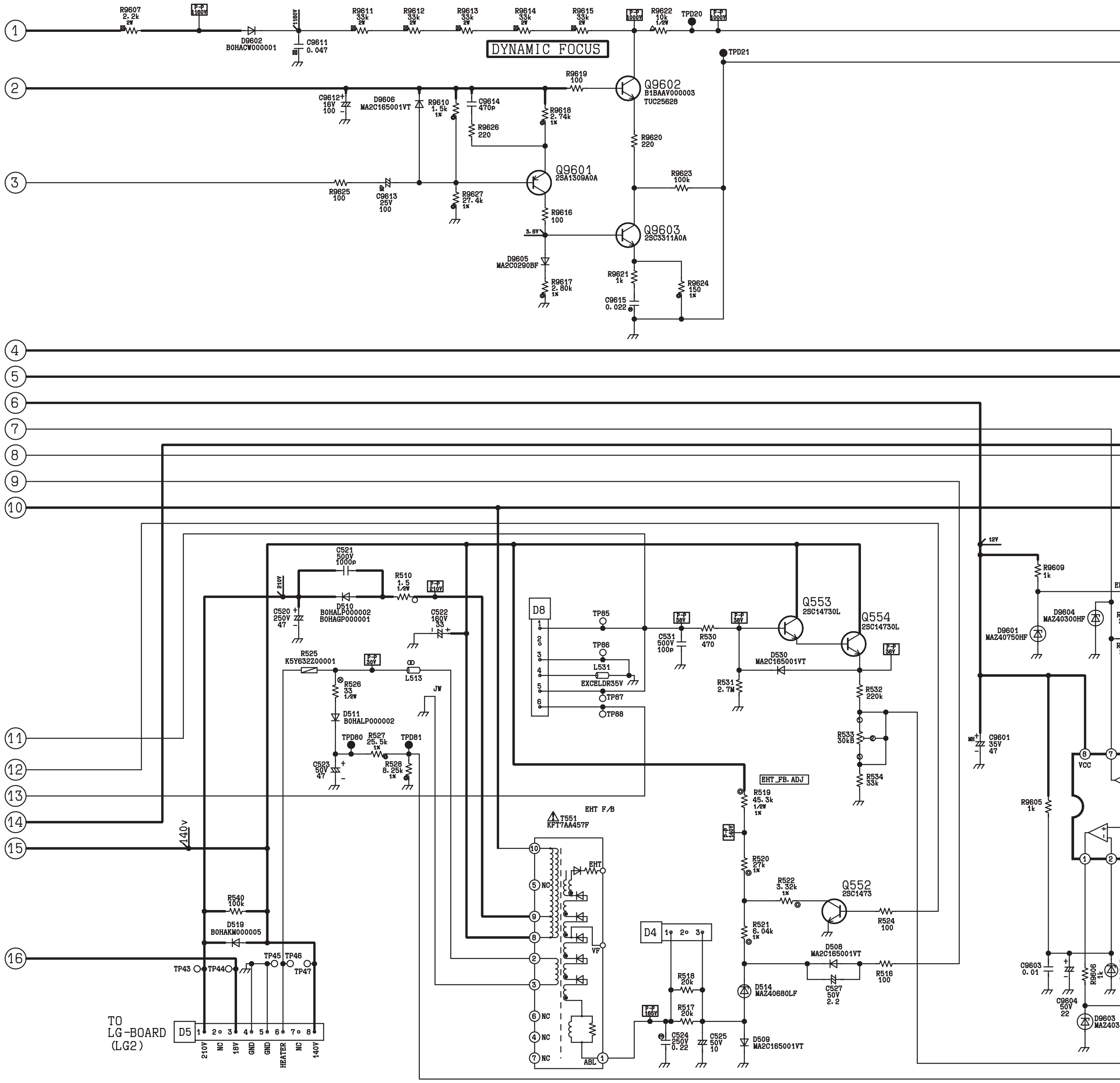
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(1of2)Schematic Diagram


TO A-BOARD (A3)
D3
-18V
-18V
+18V
+18V
GND
GND
EW-OUT
H.V-DAF
5V
H-DRIVE
FBP
28.125K/OTHER
ACL
TUNNER GND
EHT
TUNNER GND
RH
VBLKIN
RV
INTER
GND
GND
BH
GND
BV
GND
GND
GND
GH
GND
GV
GND
TO DY-B
D13
BH
BV
TO DY-G
D14
GH
GV
TO DY-R
D15
RH
RV
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TPD14
L7001
L7002
L7003
L7004
L7005
L7006
EXCELSA39
R7030 120 2W
R7031 82 2W
R7032 82 2W
R7033 82 2W
R7034 120 2W
R7035 82 2W
R7090 3.3k
C7091 1000p
R7091 3.3k
C7092 1000p
R7092 3.3k
C7093 1000p
R7093 3.3k
C7094 1000p
R7094 3.3k
C7095 1000p
R7095 3.3k
IC7001
C5AA00000196
COMVERGENCE
GH
GV
RH
RV
BH
C7002 0.01
C7003 0.01
R7025 2.2k
R7026 2.2k
C7004 35V 100
C7005 35V 100
R7027 2.2k
C7013 35V 100
C7014 35V 100
C7015 0.01
C7016 0.01
R7028 2.2k
R7029 2.2k
C7009 22p
R7019 3.3k
R7020 560
C7010 680p
C7011 22p
R7021 3.3k
R7040 2.2 2W
R7048 2.2 2W
R7010 560
C7017 680p
C7018 22p
R7011 3.3k
R7052 2.2 2W
R7012 560
C7019 680p
C7020 22p
R7013 3.3k
R7060 2.2 2W
R7014 560
C7021 680p
C7022 22p
R7015 3.3k
R7064 2.2 2W
TUC256751
IC451
C1AA00000521
VERTICAL OUT
PUPUP
-VCC
5V
R456 3.92k 1%
R475 3.01k 1%
C460 50V 10
R476 10k
R460 1/2W
C456 0.22 100V
C452 35V 470
C461 50V 1000
D453 B0HAMR000048
D452 MA2C165001VT
R462 100
C451 35V 47
R477 33k
R478 10k
R468 3.3k
R469 JW
D462 MA2C72300F
D455 MA2C165001VT
R465 2.7k
Q451 2SC3311A0A
R466 4.7k
D454 MA2C165001VT
C516 2700p 2kV
C517 2kV 220p
C514 2kV 2200p
C518 220p 2kV
C519 50V 6800p
C526 JW
D504 MAZ42700MF
R506 3.9k
R507 1.5k
L507 EXCELDR25V
JSD64
JSD65
L505 EXCELSA24T
C515 200V 0.47
GAP1.8
P-P 450V
P-P 700V
P-P 25V
P-P 680V
P-P 560V
P-P 330V
P-P 390V
IC751
AN6914
COMPARATER
12V
VCC
GND
C754 0.01
R763 10k
R762 3.3k
R764 1.5k
R761 100
L741 100
L703 EXCELSA35T
C702 250V 0.82
140V
160V
L702 ELC18B151G
C701 2kV 270p
D701 B0HALP000002
JSD61
JSD62
R703 4.7 5W
L701 G0A222DA0017
C704 100V 10
C705 100V 10
Q701 2SK2538000LB
R701 68 1/2W
D702 MAZ41200MF
L705 TXAUC060FDV
TUC25628
P-P 160V
P-P 45V
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(1of2)Schematic Diagram

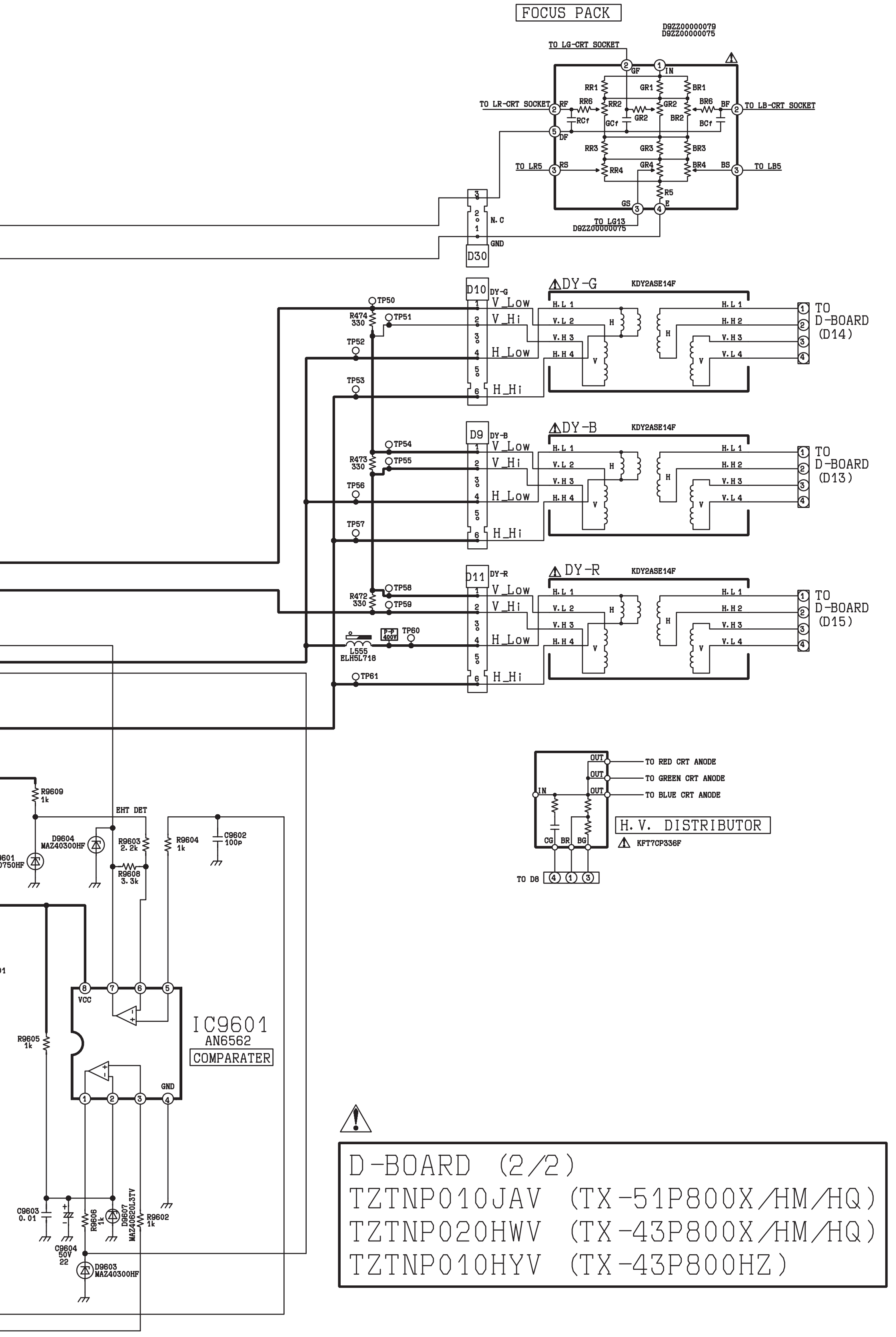
5 6 7

14.8. D-Board (2 of 2) Schematic Diagram


DYNAMIC FOCUS
R9607 2.2k 2W
P-P 1180V
D9602 B0HACW000001
C9611 0.047
R9611 33k 2W
R9612 33k 2W
R9613 33k 2W
R9614 33k 2W
R9615 33k 2W
P-P 1000V
R9622 10k 1/2W
TPD20
P-P 1000V
TPD21
R9619 100
Q9602 B1BAAV000003 TUC25628
C9612 16V 100
D9606 MA2C165001VT
R9610 1.5k 1%
C9614 470p
R9626 220
R9618 2.74k 1%
R9620 220
R9623 100k
Q9601 2SA1309A0A
R9625 100
C9613 25V 100
R9627 27.4k 1%
R9616 100
3.6V
Q9603 2SC3311A0A
D9605 MA2C0290BF
R9617 2.80k 1%
R9621 1k
R9624 150 1%
C9615 0.022
12V
R9609 1k
C521 500V 1000p
210V
R510 1.5 1/2W
P-P 210V
C520 250V 47
D510 B0HALP000002 B0HAGP000001
C522 160V 33
R525 K5Y632Z00001
P-P 30V
R526 33 1/2W
L513
JW
D511 B0HALP000002
TPD80
R527 25.5k 1%
TPD81
C523 50V 47
R528 8.25k 1%
D8
TP85
TP86
L531 EXCELDR35V
TP87
TP88
P-P 36V
C531 500V 100p
R530 470
P-P 36V
Q553 2SC1473OL
Q554 2SC1473OL
D530 MA2C165001VT
P-P 36V
R531 2.7M
R532 220k
R533 30kB
R534 33k
EHT_FB.ADJ
R519 45.3k 1/2W 1%
P-P 140V
R520 27k 1%
R522 3.32k 1%
Q552 2SC1473
R524 100
R521 6.04k 1%
D508 MA2C165001VT
R516 100
D514 MAZ40680LF
C527 50V 2.2
D4
R518 20k
R517 20k
P-P 185V
C524 250V 0.22
C525 50V 10
D509 MA2C165001VT
EHT F/B
T551 KFT7AA457F
EHT
VF
ABL
NC
140V
R540 100k
D519 B0HAKM000005
TP43
TP44
TP45
TP46
TP47
TO LG-BOARD (LG2)
D5
210V
NC
18V
GND
GND
HEATER
NC
140V
D9604 MAZ40300HF
D9601 MAZ40750HF
C9601 35V 47
R9605 1k
VCC
C9603 0.01
R9606 1k
C9604 50V 22
D9603 MAZ403
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(2of2)Schematic Diagram

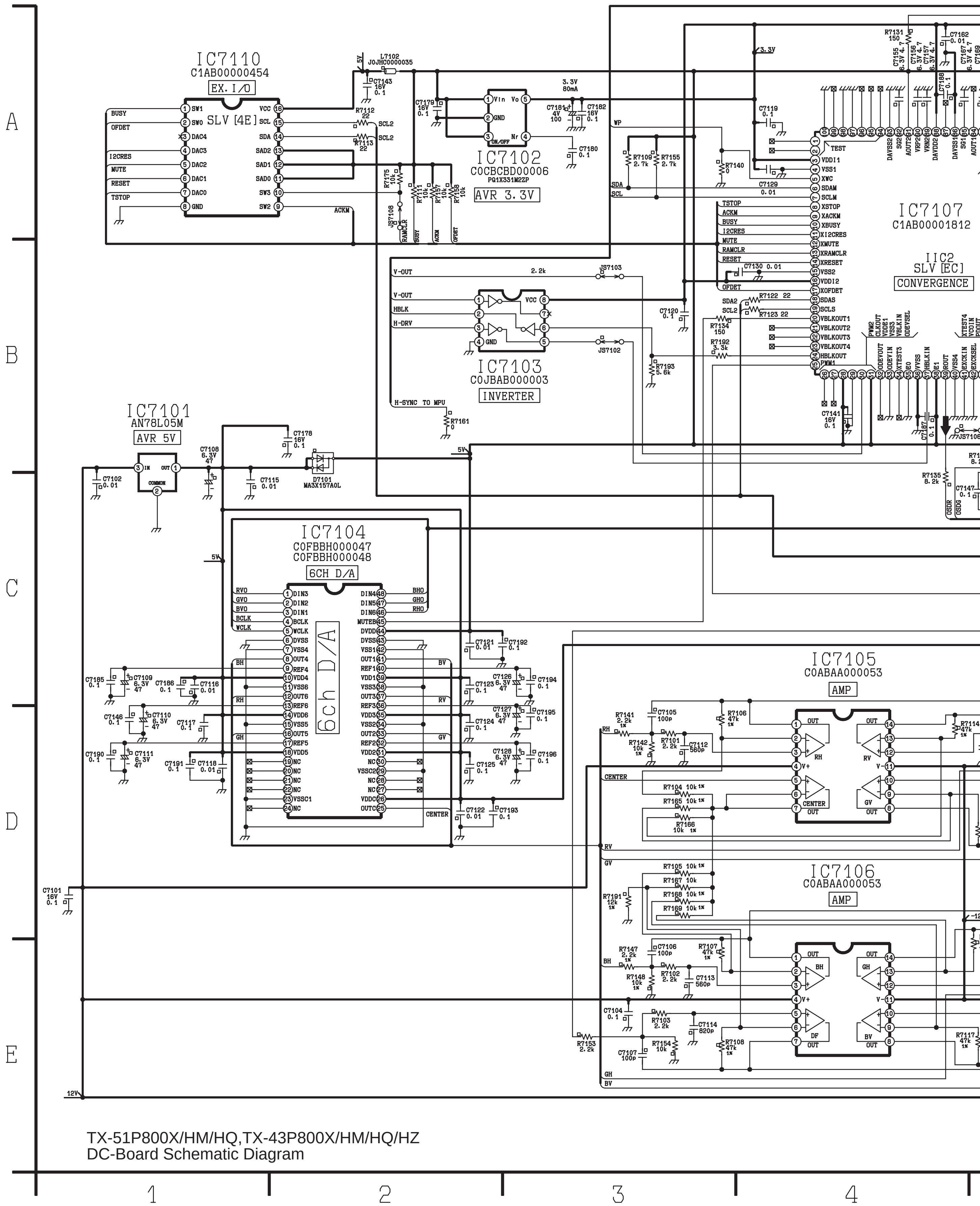
8 9 10 11


FOCUS PACK
D9ZZ00000079
D9ZZ00000075
TO LG-CRT SOCKET
TO LR-CRT SOCKET
TO LB-CRT SOCKET
GF
IN
RF
BF
DF
RR1
GR1
BR1
RR6
RR2
GR2
BR6
RCf
GCf
BCf
BR2
RR3
GR3
BR3
RR4
GR4
BR4
TO LR5
RS
BS
TO LB5
R5
GS
E
TO LG13
D9ZZ00000075
N.C
GND
D30
D10
DY-G
KDY2ASE14F
V_Low
V_Hi
H_Low
H_Hi
H.L 1
V.L 2
V.H 3
H.H 4
H.H 2
V.L 4
TO
D-BOARD
(D14)
TP50
TP51
R474
330
TP52
TP53
D9
DY-B
TP54
TP55
R473
330
TP56
TP57
(D13)
D11
DY-R
TP58
TP59
R472
330
L555
ELH5L718
P-P
400V
TP60
TP61
(D15)
OUT
IN
CG
BR
BG
TO RED CRT ANODE
TO GREEN CRT ANODE
TO BLUE CRT ANODE
H.V. DISTRIBUTOR
KFT7CP336F
TO D8
R9609
1k
EHT DET
D9604
MAZ40300HF
R9603
2.2k
R9608
3.3k
R9604
1k
C9602
100p
VCC
GND
IC9601
AN6562
COMPARATER
R9605
1k
C9603
0.01
R9606
1k
D9607
MAZ40620L3TV
R9602
1k
C9604
50V
22
D9603
MAZ40300HF
12
13
14

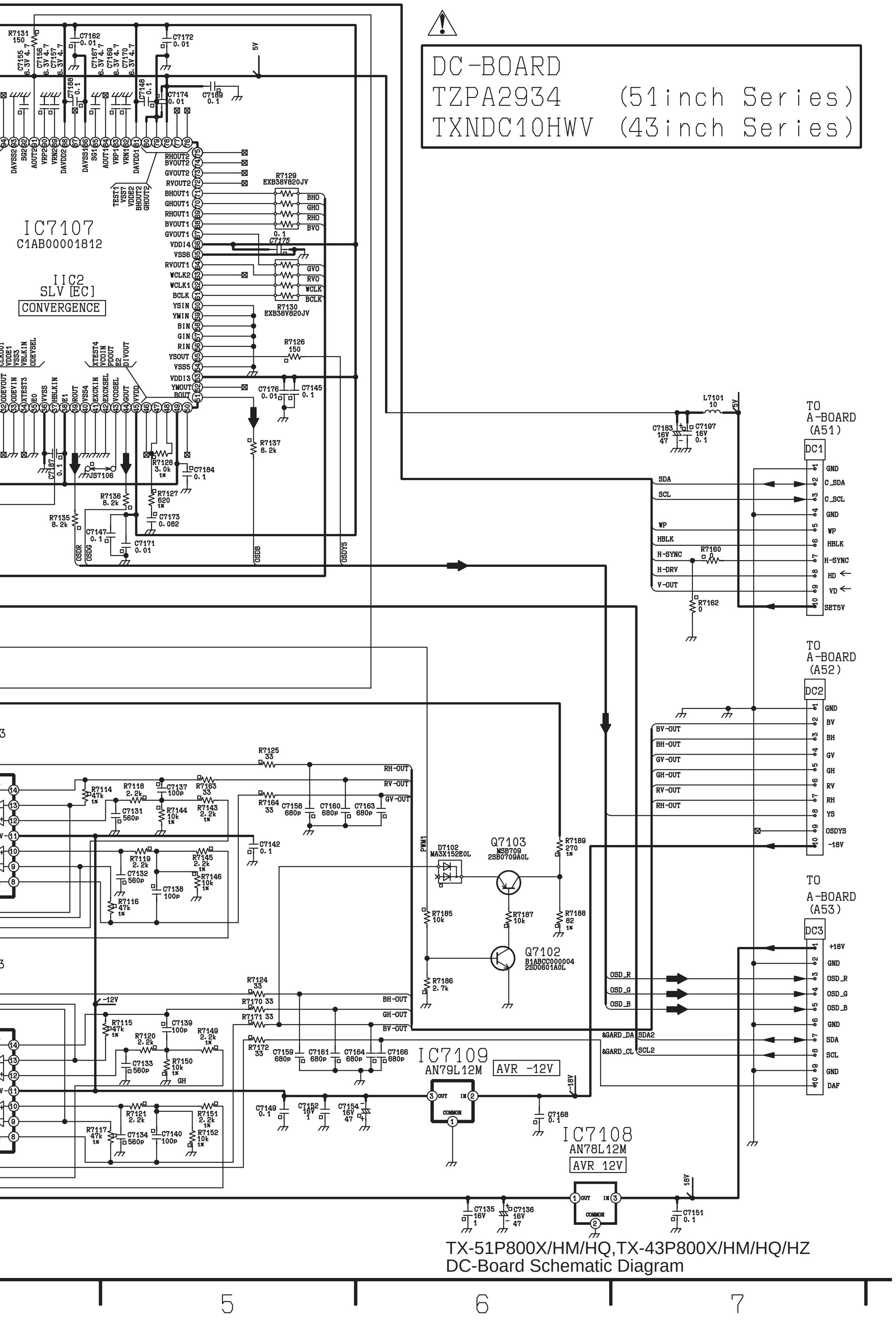
D-BOARD (2/2)
TZTNP010JAV (TX-51P800X/HM/HQ)
TZTNP020HWV (TX-43P800X/HM/HQ)
TZTNP010HYV (TX-43P800HZ)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ D-Board(2of2)Schematic Diagram

14.9. DC-Board Schematic Diagram


IC7110
C1AB00000454
EX.I/O
SLV [4E]
IC7102
C0CBCBD00006
PQ1X331M2ZP
AVR 3.3V
IC7103
C0JBAB000003
INVERTER
IC7101
AN78L05M
AVR 5V
D7101
MA3X157A0L
IC7104
C0FBBH000047
C0FBBH000048
6CH D/A
6ch D/A
IC7107
C1AB00001812
IIC2
SLV [EC]
CONVERGENCE
IC7105
C0ABAA000053
AMP
IC7106
C0ABAA000053
AMP
L7102
J0JHC0000035
BUSY
OFDET
I2CRES
MUTE
RESET
TSTOP
ACKM
RAMCLR
SDA
SCL
V-OUT
HBLK
H-DRV
H-SYNC TO MPU
CENTER
RH
RV
GH
GV
BH
BV
3.3V
5V
12V
A
B
C
D
E
1
2
3
4

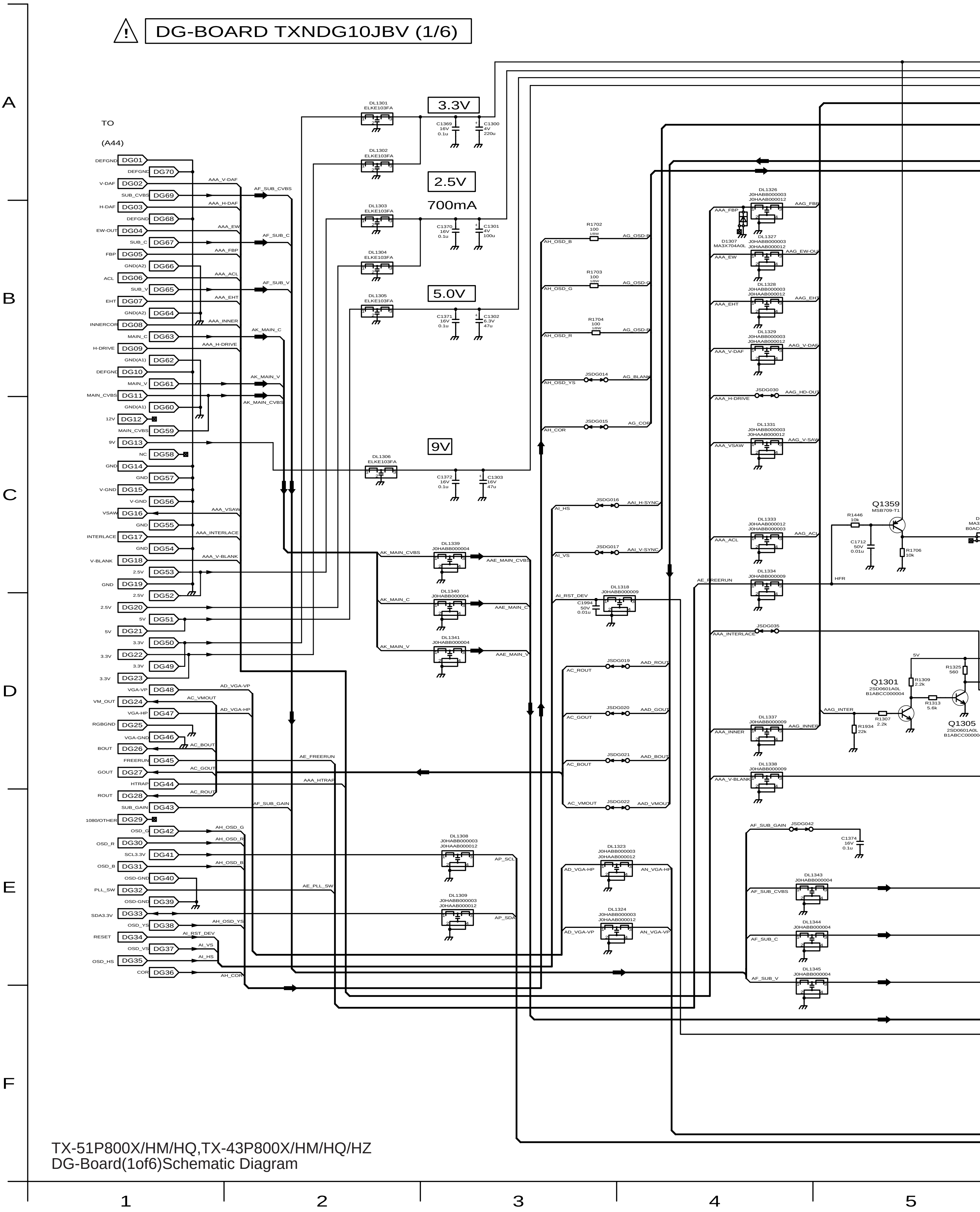
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DC-Board Schematic Diagram


IC7107
C1AB00001812
IIC2
SLV [EC]
CONVERGENCE
R7129
EXB38V820JV
R7130
EXB38V820JV
R7126
150
R7137
8.2k
R7128
3.0k
R7127
620
R7136
8.2k
R7135
8.2k
C7173
0.082
C7171
0.01
C7147
0.1
C7184
0.1
C7176
0.01
C7145
0.1
C7175
0.1
JS7106
5V
L7101
10
C7183
16V
47
C7197
16V
0.1
R7160
0
R7162
0
TO
A-BOARD
(A51)
DC1
GND
C_SDA
C_SCL
GND
WP
HBLK
H-SYNC
HD
VD
SET5V
TO
A-BOARD
(A52)
DC2
GND
BV
BH
GV
GH
RV
RH
YS
OSDYS
-18V
TO
A-BOARD
(A53)
DC3
+18V
GND
OSD_R
OSD_G
OSD_B
GND
SDA
SCL
GND
DAF
Q7103
MSB709
2SB0709A0L
Q7102
B1ABCC000004
2SD0601A0L
D7102
MA3X152E0L
R7189
270
R7188
82
R7187
10k
R7185
10k
R7186
2.7k
IC7109
AN79L12M
AVR -12V
IC7108
AN78L12M
AVR 12V
C7168
0.1
C7151
0.1
C7135
16V
1
C7136
16V
47
C7149
0.1
C7152
16V
1
C7154
16V
47
R7125
33
R7124
33
R7170 33
R7171 33
R7172
33
R7164
33
RH-OUT
RV-OUT
GV-OUT
BH-OUT
GH-OUT
BV-OUT
PWM1
-12V
5
6
7

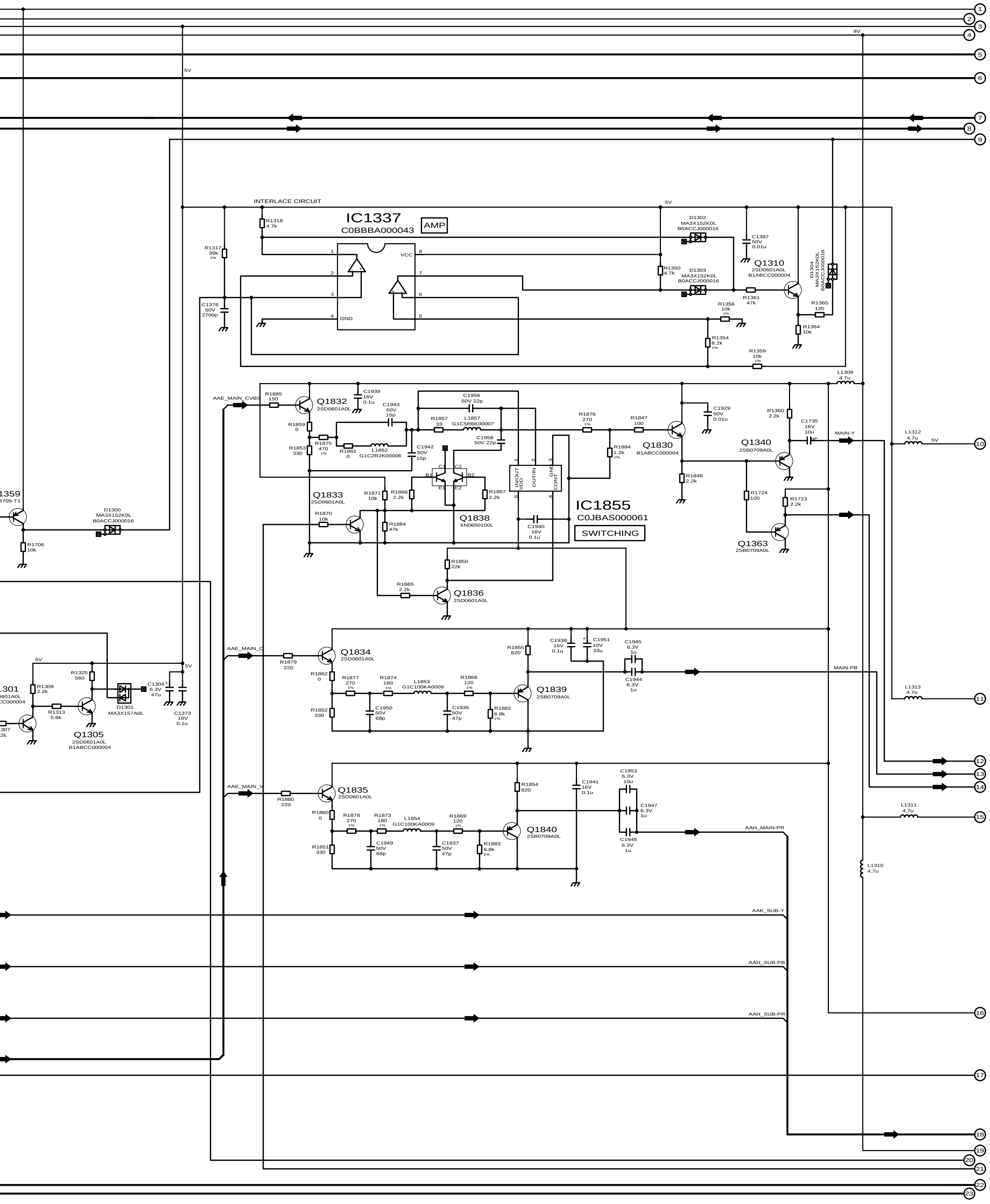
DC-BOARD
TZPA2934 (51inch Series)
TXNDC10HWV (43inch Series)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DC-Board Schematic Diagram

14.10. DG-Board (1 of 6) Schematic Diagram


DG-BOARD TXNDG10JBV (1/6)
A
B
C
D
E
F
1
2
3
4
5
TO
(A44)
DG01
DG70
DG02
DG69
DG03
DG68
DG04
DG67
DG05
DG66
DG06
DG65
DG07
DG64
DG08
DG63
DG09
DG62
DG10
DG61
DG11
DG60
DG12
DG59
DG13
DG58
DG14
DG57
DG15
DG56
DG16
DG55
DG17
DG54
DG18
DG53
DG19
DG52
DG20
DG51
DG21
DG50
DG22
DG49
DG23
DG48
DG24
DG47
DG25
DG46
DG26
DG45
DG27
DG44
DG28
DG43
DG29
DG42
DG30
DG41
DG31
DG40
DG32
DG39
DG33
DG38
DG34
DG37
DG35
DG36
3.3V
2.5V
700mA
5.0V
9V
DL1301 ELKE103FA
DL1302 ELKE103FA
DL1303 ELKE103FA
DL1304 ELKE103FA
DL1305 ELKE103FA
DL1306 ELKE103FA
C1369 16V 0.1u
C1300 4V 220u
C1370 16V 0.1u
C1301 4V 100u
C1371 16V 0.1u
C1302 6.3V 47u
C1372 16V 0.1u
C1303 16V 47u
DL1339 J0HABB000004
DL1340 J0HABB000004
DL1341 J0HABB000004
DL1308 J0HABB000003 J0HAAB000012
DL1309 J0HABB000003 J0HAAB000012
R1702 100
R1703 100
R1704 100
JSDG014
JSDG015
JSDG016
JSDG017
DL1318 J0HABB000009
C1994 50V 0.01u
JSDG019
JSDG020
JSDG021
JSDG022
DL1323 J0HABB000003 J0HAAB000012
DL1324 J0HABB000003 J0HAAB000012
DL1326 J0HABB000003 J0HAAB000012
D1307 MA3X704A0L
DL1327 J0HABB000003 J0HAAB000012
DL1328 J0HABB000003 J0HAAB000012
DL1329 J0HABB000003 J0HAAB000012
JSDG030
DL1331 J0HABB000003 J0HAAB000012
DL1333 J0HAAB000012 J0HABB000003
DL1334 J0HABB000009
JSDG035
DL1337 J0HABB000009
DL1338 J0HABB000009
JSDG042
C1374 16V 0.1u
DL1343 J0HABB000004
DL1344 J0HABB000004
DL1345 J0HABB000004
Q1359 MSB709-T1
R1446 10k
C1712 50V 0.01u
R1706 10k
Q1301 2SD0601A0L B1ABCC000004
Q1305 2SD0601A0L B1ABCC000004
R1309 2.2k
R1325 560
R1313 5.6k
R1307 2.2k
R1934 22k
AAA_V-DAF
AF_SUB_CVBS
AAA_H-DAF
AAA_EW
AF_SUB_C
AAA_FBP
AAA_ACL
AF_SUB_V
AAA_EHT
AAA_INNER
AK_MAIN_C
AAA_H-DRIVE
AK_MAIN_V
AK_MAIN_CVBS
AAA_VSAW
AAA_INTERLACE
AAA_V-BLANK
AD_VGA-VP
AC_VMOUT
AD_VGA-HP
AC_BOUT
AE_FREERUN
AC_GOUT
AAA_HTRAP
AC_ROUT
AF_SUB_GAIN
AH_OSD_G
AH_OSD_R
AH_OSD_B
AE_PLL_SW
AH_OSD_YS
AI_RST_DEV
AI_VS
AI_HS
AH_COR
AAE_MAIN_CVBS
AAE_MAIN_C
AAE_MAIN_V
AP_SCL
AP_SDA
AG_OSD-B
AG_OSD-G
AG_OSD-R
AG_BLANK
AG_COR
AAI_H-SYNC
AAI_V-SYNC
AAD_ROUT
AAD_GOUT
AAD_BOUT
AAD_VMOUT
AN_VGA-HP
AN_VGA-VP
AAG_FBP
AAG_EW-OUT
AAG_EHT
AAG_V-DAF
AAG_HD-OUT
AAG_V-SAW
AAG_ACL
AAG_INNER
AAG_INTER
HFR

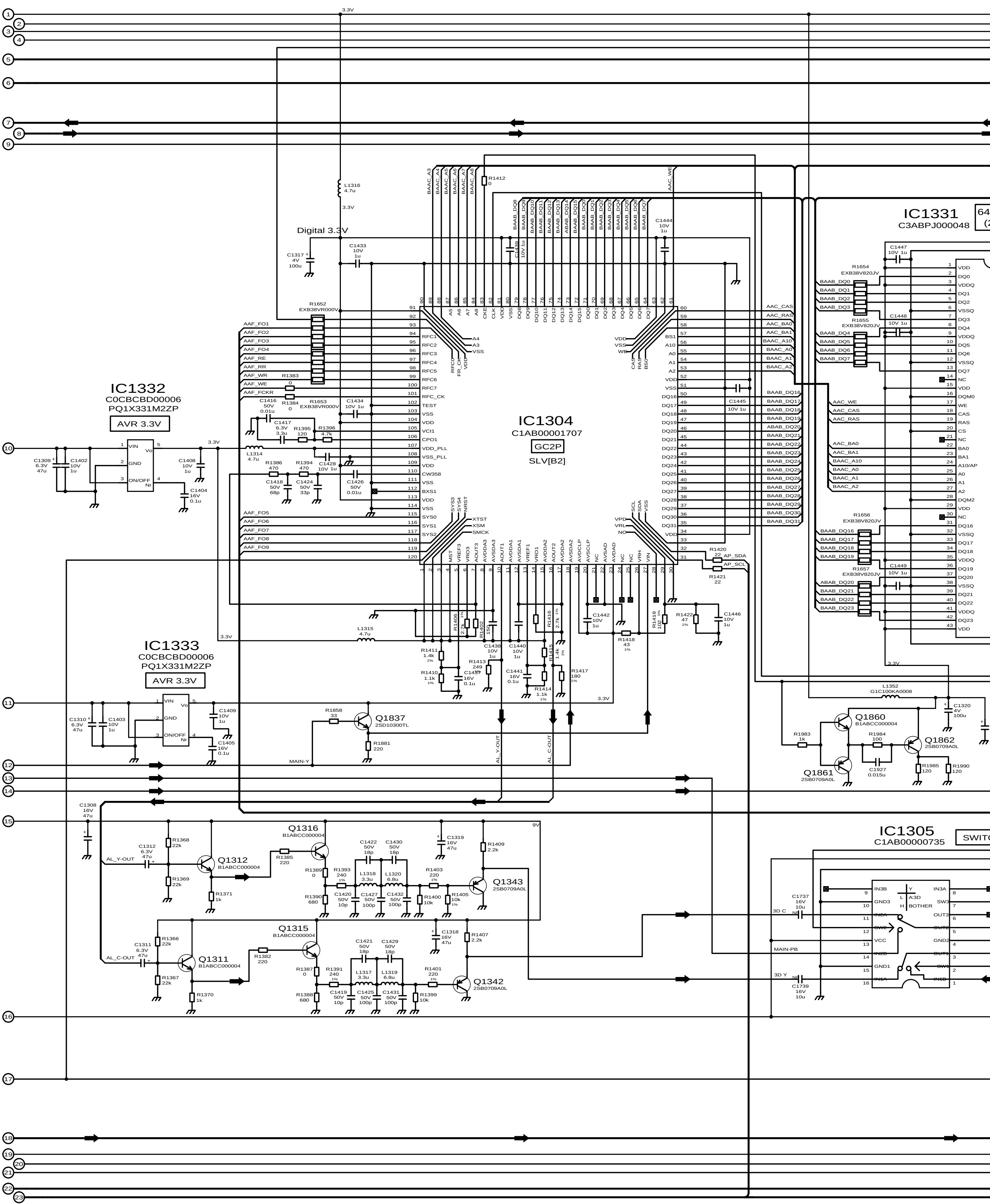
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(1of6)Schematic Diagram


INTERLACE CIRCUIT
IC1337
C0BBBA000043
AMP
R1318 4.7k
R1317 39k
C1376 50V 2700p
VCC
GND
5V
9V
D1302 MA3X152K0L B0ACCJ000016
C1397 50V 0.01u
R1350 4.7k
D1303 MA3X152K0L B0ACCJ000016
Q1310 2SD0601A0L B1ABCC000004
D1304 MA3X152K0L B0ACCJ000016
R1361 47k
R1365 120
R1356 10k
R1364 10k
R1354 8.2k
R1359 10k
L1309 4.7u
AAE_MAIN_CVBS
R1885 150
Q1832 2SD0601A0L
C1939 16V 0.1u
C1943 50V 15p
C1956 50V 22p
R1857 33
L1857 G1C5R6K00007
C1958 50V 22p
R1859 0
R1875 470
R1853 330
R1861 0
L1852 G1C2R2K00006
C1942 50V 15p
R1876 270
R1847 100
R1884 1.2k
Q1830 B1ABCC000004
C1929 50V 0.01u
R1360 2.2k
C1735 16V 10u
MAIN-Y
L1312 4.7u
Q1340 2SB0709A0L
Q1833 2SD0601A0L
R1871 10k
R1866 2.2k
R1867 2.2k
IN/OUT VDD
OUT/IN
GND CONT
IC1855
C0JBAS000061
SWITCHING
R1846 2.2k
R1724 100
R1723 2.2k
Q1363 2SB0709A0L
R1870 10k
R1864 47k
Q1838 XN0650100L
C1940 16V 0.1u
R1850 22k
R1865 2.2k
Q1836 2SD0601A0L
1359
D1300 MA3X152K0L B0ACCJ000016
R1706 10k
AAE_MAIN_C
R1879 220
Q1834 2SD0601A0L
R1855 820
C1938 16V 0.1u
C1951 10V 33u
C1945 6.3V 1u
C1944 6.3V 1u
MAIN-PB
R1862 0
R1877 270
R1874 180
L1853 G1C100KA0009
R1868 120
Q1839 2SB0709A0L
R1852 330
C1950 50V 68p
C1935 50V 47p
R1882 6.8k
L1313 4.7u
R1325 560
R1309 2.2k
R1313 5.6k
C1304 6.3V 47u
D1301 MA3X157A0L
C1373 16V 0.1u
Q1305 2SD0601A0L B1ABCC000004
AAE_MAIN_V
R1880 220
Q1835 2SD0601A0L
R1854 820
C1941 16V 0.1u
C1953 6.3V 10u
C1947 6.3V 1u
C1946 6.3V 1u
R1860 0
R1878 270
R1873 180
L1854 G1C100KA0009
R1869 120
Q1840 2SB0709A0L
R1851 330
C1949 50V 68p
C1937 50V 47p
R1883 6.8k
AAH_MAIN-PR
L1311 4.7u
L1310 4.7u
AAK_SUB-Y
AAH_SUB-PB
AAH_SUB-PR
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ DG-Board(1of6)Schematic Diagram

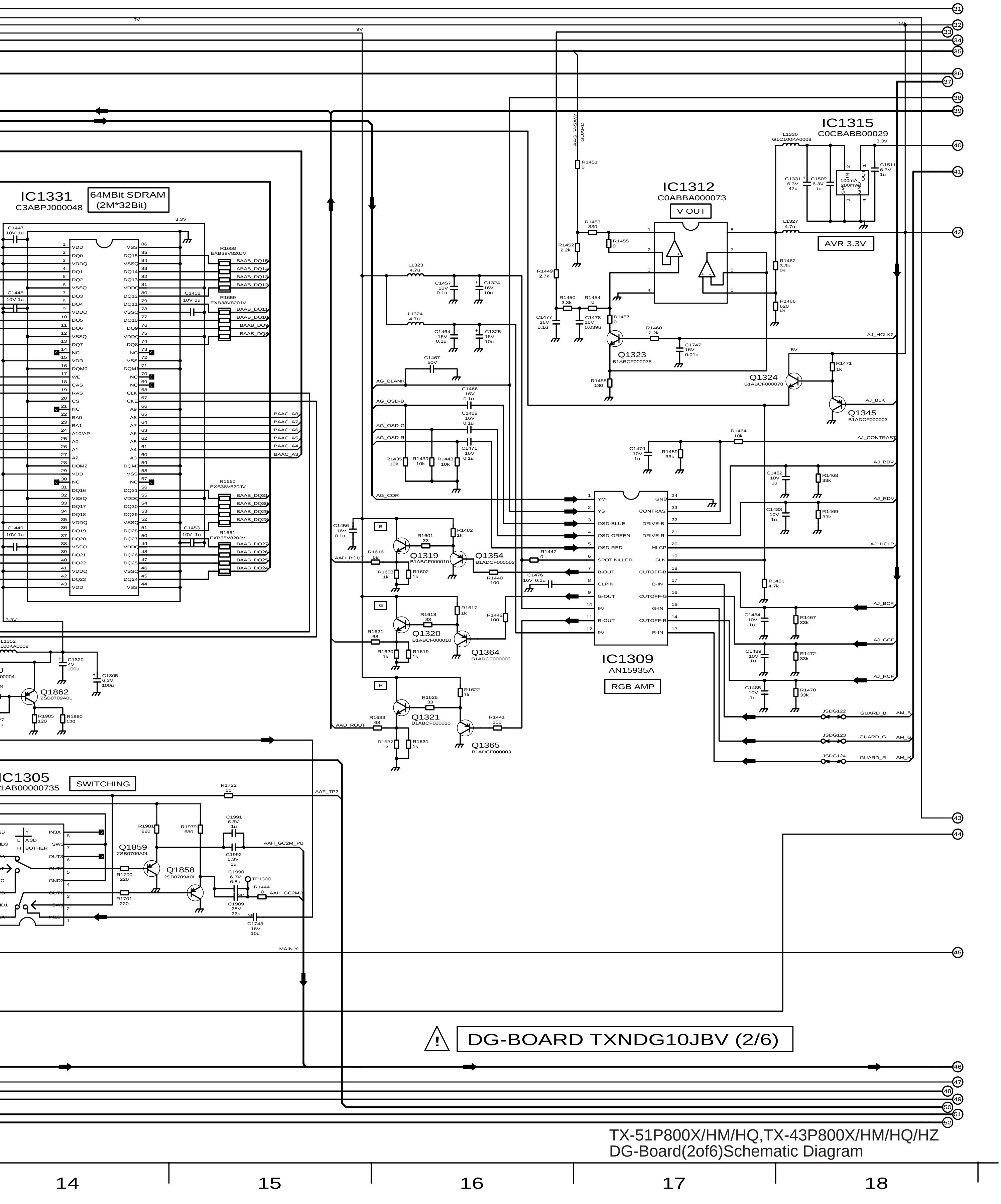
5
6
7
8
9

14.11. DG-Board (2 of 6) Schematic Diagram


IC1304
C1AB00001707
GC2P
SLV[B2]
IC1331
C3ABPJ000048
IC1332
C0CBCBD00006
PQ1X331M2ZP
AVR 3.3V
IC1333
C0CBCBD00006
PQ1X331M2ZP
AVR 3.3V
IC1305
C1AB00000735
Q1837
2SD10300TL
Q1860
B1ABCC000004
Q1861
2SB0709A0L
Q1862
2SB0709A0L
Q1316
B1ABCC000004
Q1312
B1ABCC000004
Q1343
2SB0709A0L
Q1315
B1ABCC000004
Q1311
B1ABCC000004
Q1342
2SB0709A0L
Digital 3.3V
3.3V
9V
L1316
4.7u
L1314
4.7u
L1315
4.7u
L1352
G1C100KA0008
AL_Y-OUT
AL_C-OUT
MAIN-Y
MAIN-PB
3D C
3D Y
AP_SDA
AP_SCL
AAF_FO1
AAF_FO2
AAF_FO3
AAF_FO4
AAF_RE
AAF_RR
AAF_WR
AAF_WE
AAF_FCKR
AAF_FO5
AAF_FO6
AAF_FO7
AAF_FO8
AAF_FO9
AAC_CAS
AAC_RAS
AAC_BA0
AAC_BA1
AAC_WE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(2of6)Schematic Diagram

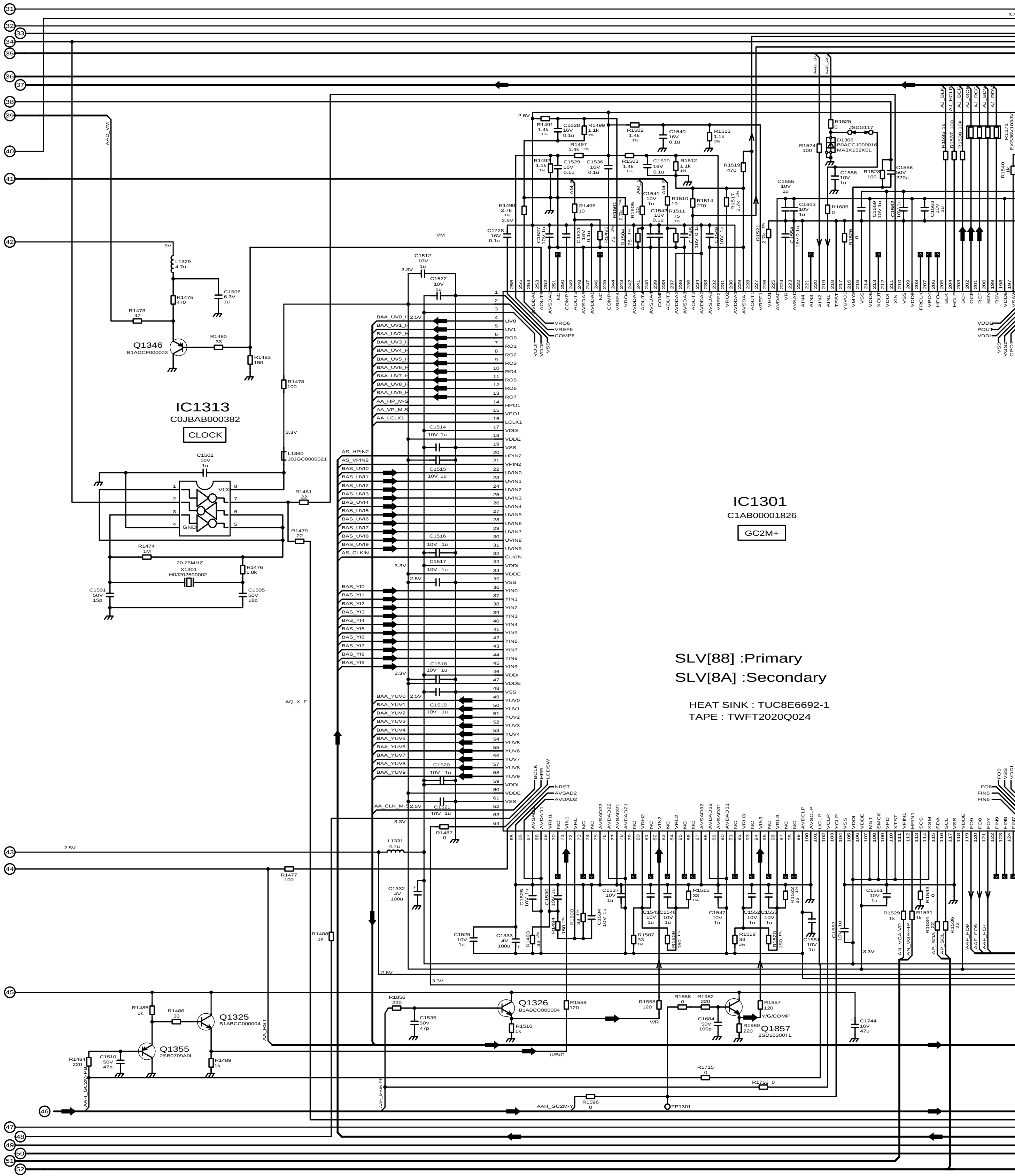
10 11 12 13 14


IC1331
C3ABPJ000048
64MBit SDRAM
(2M*32Bit)
IC1312
C0ABBA000073
V OUT
IC1315
C0CBABB00029
AVR 3.3V
IC1309
AN15935A
RGB AMP
IC1305
1AB00000735
SWITCHING
Q1319
B1ABCF000010
Q1320
B1ABCF000010
Q1321
B1ABCF000010
Q1354
B1ADCF000003
Q1364
B1ADCF000003
Q1365
B1ADCF000003
Q1323
B1ABCF000078
Q1324
B1ABCF000078
Q1345
B1ADCF000003
Q1862
2SB0709A0L
Q1859
2SB0709A0L
Q1858
2SB0709A0L
R1658 EXB38V820JV
R1659 EXB38V820JV
R1660 EXB38V820JV
R1661 EXB38V820JV
AG_BLANK
AG_OSD-B
AG_OSD-G
AG_OSD-R
AG_COR
AAD_BOUT
AAD_ROUT
AAG_V-SAW GUARD
AJ_HCLK2
AJ_BLK
AJ_CONTRAST
AJ_BDV
AJ_RDV
AJ_HCLP
AJ_BCF
AJ_GCF
AJ_RCF
JSDG122
JSDG123
JSDG124
GUARD_B
GUARD_G
GUARD_R
AM_B
AM_G
AM_R
AAF_TP2
AAH_GC2M_PB
MAIN-Y
TP1300
DG-BOARD TXNDG10JBV (2/6)
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
14
15
16
17
18

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(2of6)Schematic Diagram

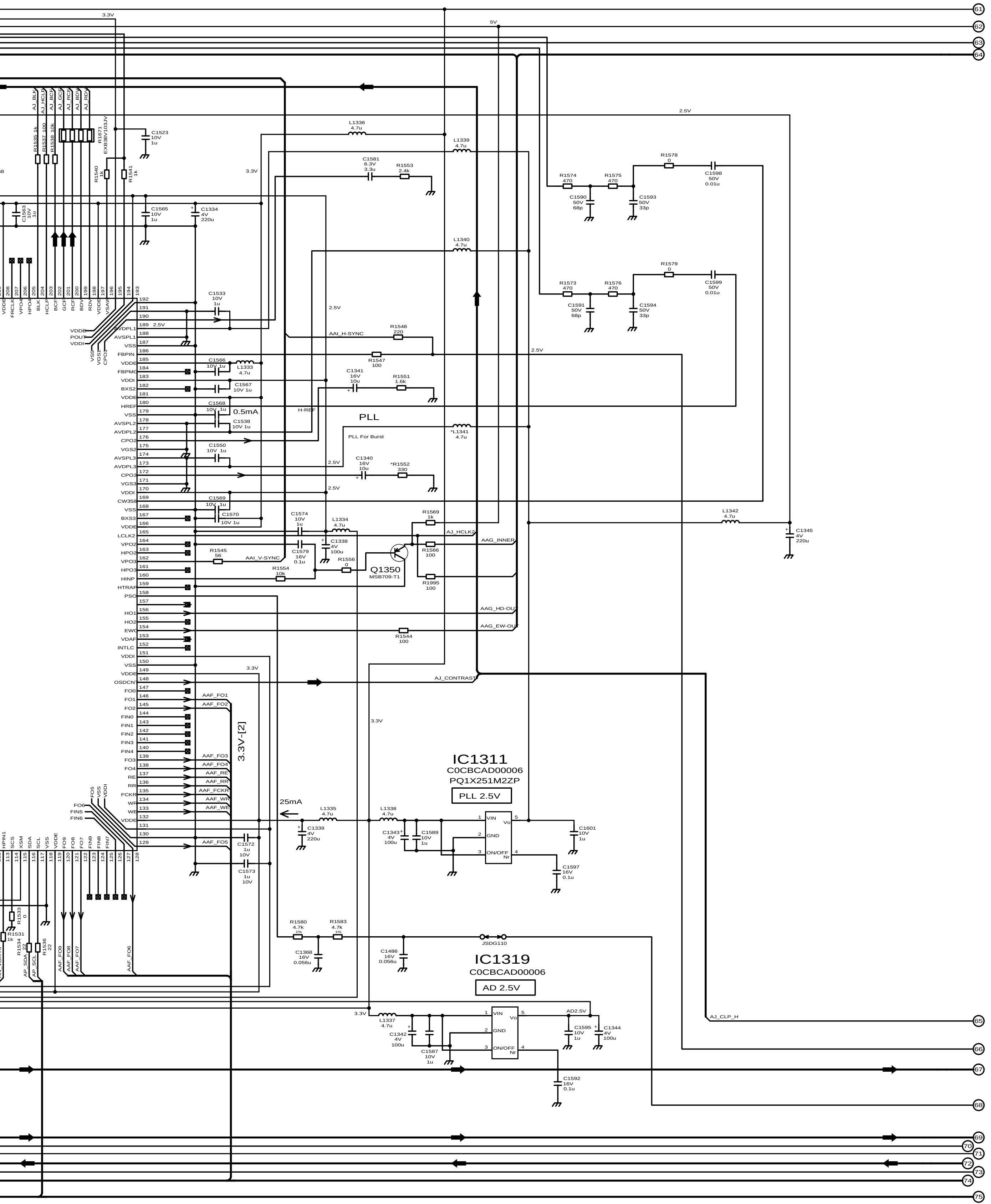
14.12. DG-Board (3 of 6) Schematic Diagram

⚠ DG-BOARD TXNDG10JBV (3/6)


IC1313
C0JBAB000382
CLOCK
X1301
20.25MHZ
H0J202500002
IC1301
C1AB00001826
GC2M+
SLV[88] :Primary
SLV[8A] :Secondary
HEAT SINK : TUC8E6692-1
TAPE : TWFT2020Q024
Q1346
B1ADCF000003
Q1325
B1ABCC000004
Q1355
2SB0709A0L
Q1326
B1ABCC000004
Q1857
2SD10300TL
D1306
B0ACCJ000016
MA3X152K0L
L1329
4.7u
L1360
J0JGC0000021
L1331
4.7u
TP1301
AAD_VM
AQ_X_F
AA_RST
AAH_GC2M-PB
AAH_MAIN-PB
AAH_GC2M-Y
Y/G/COMP
V/R
U/B/C
VM
5V
3.3V
2.5V
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(3of6)Schematic Diagram

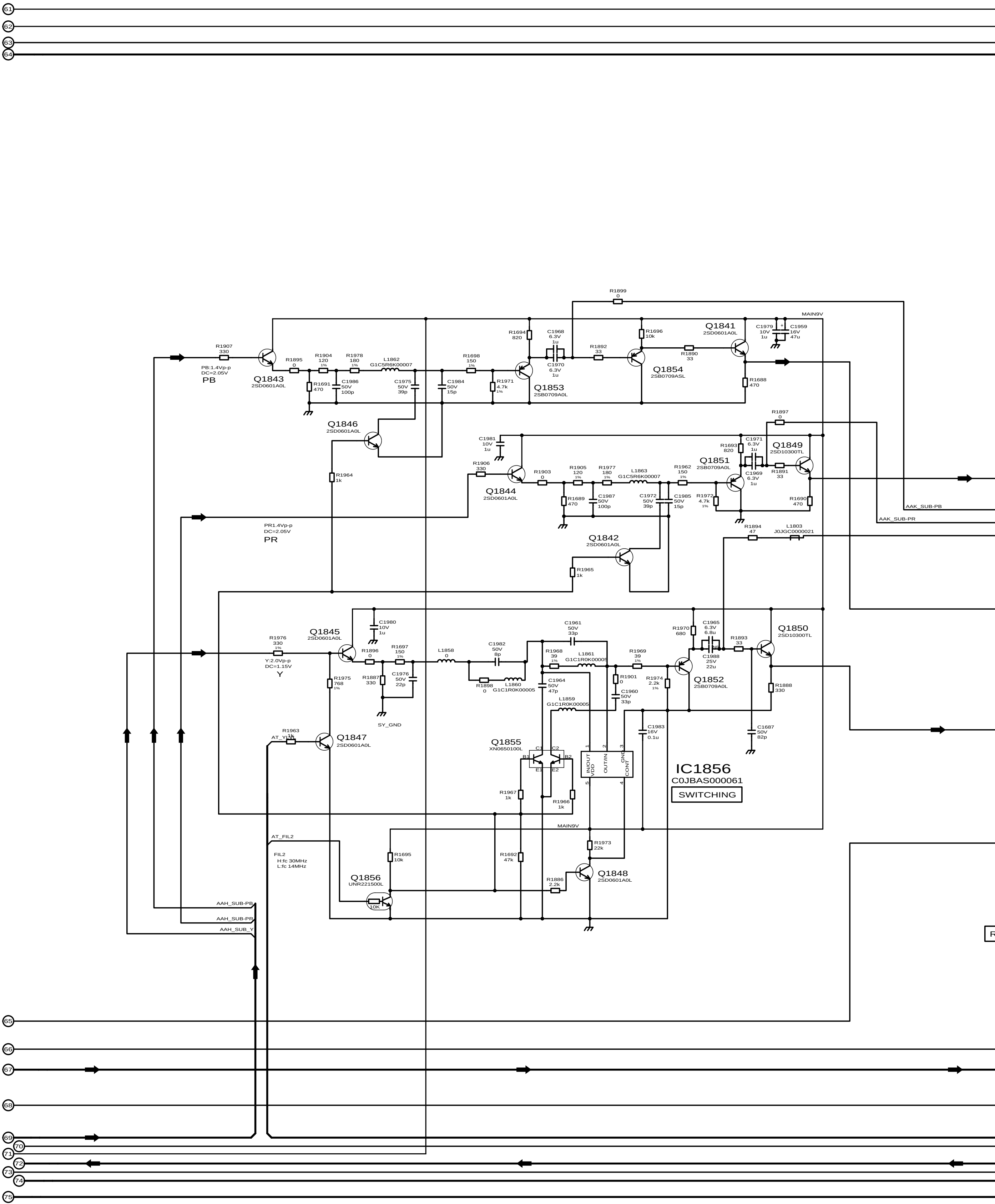
19 20 21 22 23


IC1311
C0CBCAD00006
PQ1X251M2ZP
PLL 2.5V
IC1319
C0CBCAD00006
AD 2.5V
Q1350
MSB709-T1
PLL
PLL For Burst
3.3V-[2]
25mA
0.5mA
AAI_H-SYNC
AAI_V-SYNC
H-REF
AJ_HCLK2
AAG_INNER
AAG_HD-OUT
AAG_EW-OUT
AJ_CONTRAST
AJ_CLP_H
JSDG110
AAF_FO1
AAF_FO2
AAF_FO3
AAF_FO4
AAF_FO5
AAF_RE
AAF_RR
AAF_FCKR
AAF_WR
AAF_WE
AJ_BLK
AJ_HCLP
AJ_BCF
AJ_GCF
AJ_RCF
AJ_BDV
AJ_RDV
AP_SDA
AP_SCL
AAF_FO9
AAF_FO8
AAF_FO7
AAF_FO6
EXB38V103JV
L1336 4.7u
L1339 4.7u
L1340 4.7u
*L1341 4.7u
L1342 4.7u
L1333 4.7u
L1334 4.7u
L1335 4.7u
L1337 4.7u
L1338 4.7u
R1578 0
R1579 0
R1574 470
R1575 470
R1573 470
R1576 470
R1553 2.4k
R1548 220
R1547 100
R1551 1.6k
*R1552 330
R1569 1k
R1566 100
R1995 100
R1545 56
R1554 10k
R1556 0
R1544 100
R1580 4.7k
R1583 4.7k
R1540 1k
R1541 1k
R1535 1k
R1537 100
R1538 10k
R1533 0
R1531 1k
R1534 22
R1536 22
C1523 10V 1u
C1565 10V 1u
C1334 4V 220u
C1563 10V 1u
C1581 6.3V 3.3u
C1598 50V 0.01u
C1599 50V 0.01u
C1590 50V 68p
C1593 50V 33p
C1591 50V 68p
C1594 50V 33p
C1533 10V 1u
C1566 10V 1u
C1567 10V 1u
C1568 10V 1u
C1538 10V 1u
C1550 10V 1u
C1569 10V 1u
C1570 10V 1u
C1341 16V 10u
C1340 16V 10u
C1574 10V 1u
C1579 16V 0.1u
C1338 4V 100u
C1345 4V 220u
C1339 4V 220u
C1572 1u 10V
C1573 1u 10V
C1343 4V 100u
C1589 10V 1u
C1601 10V 1u
C1597 16V 0.1u
C1368 16V 0.056u
C1486 16V 0.056u
C1342 4V 100u
C1587 10V 1u
C1595 10V 1u
C1344 4V 100u
C1592 16V 0.1u
VIN
GND
ON/OFF
Vo
Nr
3.3V
5V
2.5V
AD2.5V
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(3of6)Schematic Diagram

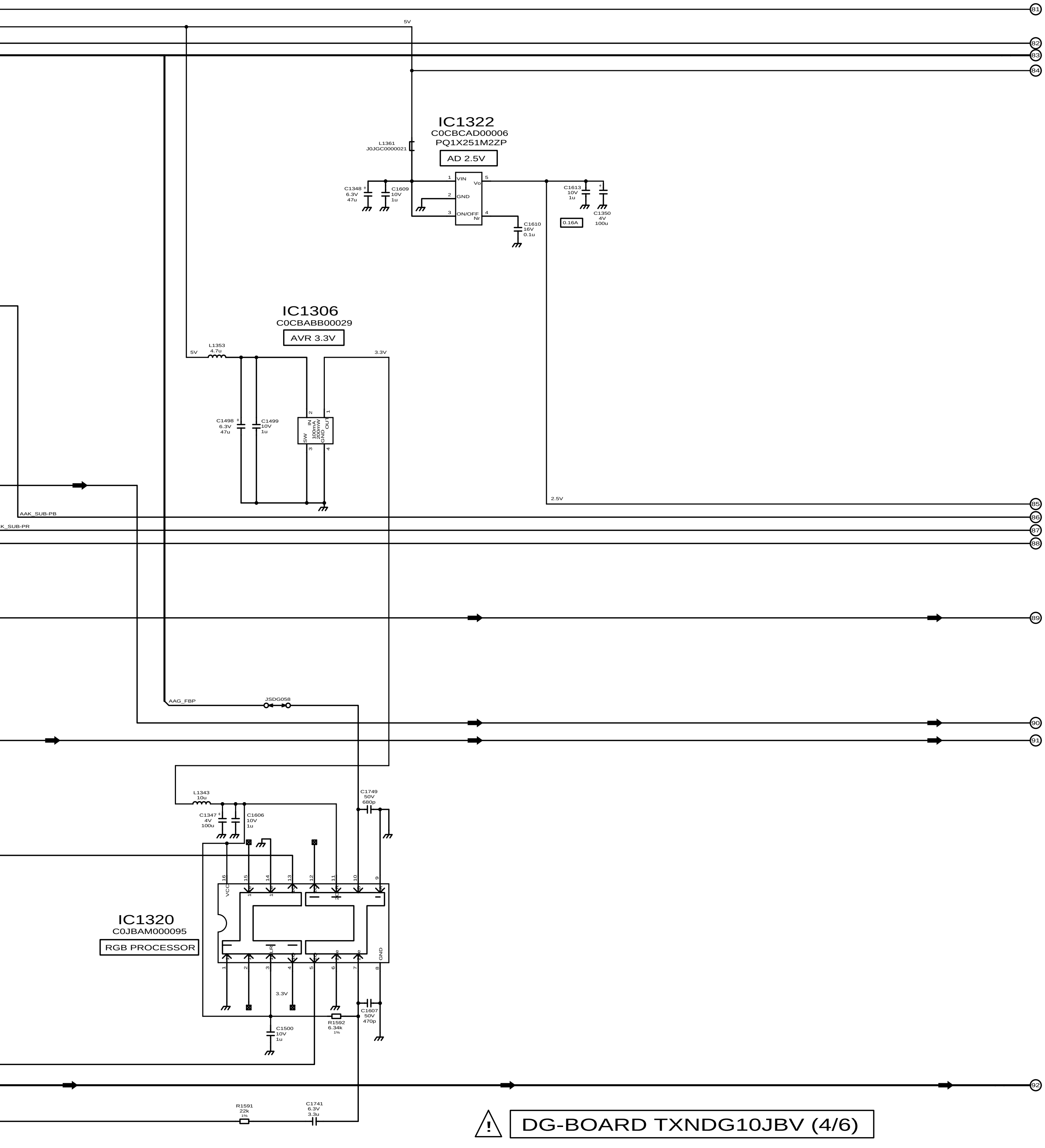
23 24 25 26 27

14.13. DG-Board (4 of 6) Schematic Diagram


61
62
63
64
R1899 0
MAIN9V
R1907 330
PB:1.4Vp-p DC=2.05V
PB
Q1843 2SD0601A0L
R1895 0
R1904 120 1%
R1978 180 1%
L1862 G1C5R6K00007
R1691 470
C1986 50V 100p
C1975 50V 39p
C1984 50V 15p
R1698 150 1%
R1971 4.7k 1%
R1694 820
C1968 6.3V 1u
C1970 6.3V 1u
Q1853 2SB0709A0L
R1892 33
R1696 10k
Q1854 2SB0709ASL
R1890 33
Q1841 2SD0601A0L
C1979 10V 1u
C1959 16V 47u
R1688 470
Q1846 2SD0601A0L
R1964 1k
C1981 10V 1u
R1906 330
Q1844 2SD0601A0L
R1903 0
R1689 470
R1905 120 1%
C1987 50V 100p
R1977 180 1%
L1863 G1C5R6K00007
C1972 50V 39p
C1985 50V 15p
R1962 150 1%
R1972 4.7k 1%
Q1851 2SB0709A0L
R1693 820
C1971 6.3V 1u
C1969 6.3V 1u
R1897 0
Q1849 2SD10300TL
R1891 33
R1690 470
AAK_SUB-PB
AAK_SUB-PR
R1894 47
L1803 J0JGC0000021
PR1.4Vp-p DC=2.05V
PR
Q1842 2SD0601A0L
R1965 1k
R1976 330 1%
Y:2.0Vp-p DC=1.15V
Y
Q1845 2SD0601A0L
C1980 10V 1u
R1975 768 1%
R1896 0
R1697 150 1%
R1887 330
C1976 50V 22p
SY_GND
L1858 0
C1982 50V 8p
R1898 0
L1860 G1C1R0K00005
C1961 50V 33p
R1968 39 1%
L1861 G1C1R0K00005
C1964 50V 47p
L1859 G1C1R0K00005
R1969 39 1%
R1901 0
C1960 50V 33p
R1974 2.2k 1%
R1970 680
C1965 6.3V 6.8u
C1988 25V 22u
R1893 33
Q1852 2SB0709A0L
Q1850 2SD10300TL
R1888 330
C1983 16V 0.1u
C1687 50V 82p
R1963 1k
AT_Y
Q1847 2SD0601A0L
Q1855 XN0650100L
C1 C2 B1 B2 E1 E2
1 2 3 4 5
IN/OUT VDD
OUT/IN
GND CONT
IC1856
C0JBAS000061
SWITCHING
R1967 1k
R1966 1k
MAIN9V
AT_FIL2
FIL2
H:fc 30MHz
L:fc 14MHz
R1695 10k
R1692 47k
R1973 22k
Q1856 UNR221500L
10K
R1886 2.2k
Q1848 2SD0601A0L
AAH_SUB-PB
AAH_SUB-PR
AAH_SUB_Y
65
66
67
68
69
70
71
72
73
74
75

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(4of6)Schematic Diagram

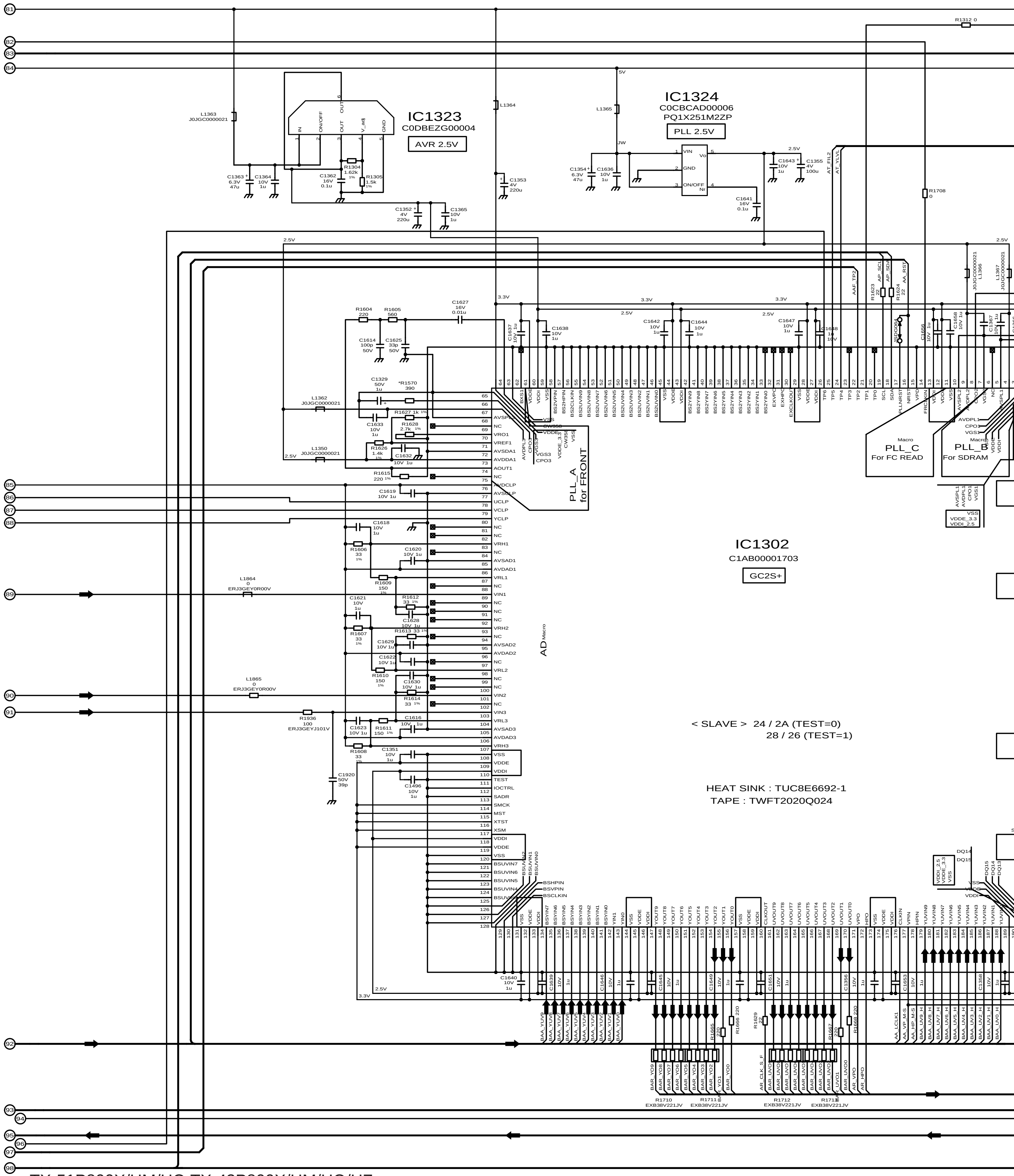
28 29 30 31 32


IC1322
C0CBCAD00006
PQ1X251M2ZP
AD 2.5V
L1361
J0JGC0000021
C1348
6.3V
47u
C1609
10V
1u
VIN
GND
ON/OFF
Vo
Nr
C1610
16V
0.1u
C1613
10V
1u
C1350
4V
100u
0.16A
5V
IC1306
C0CBABB00029
AVR 3.3V
L1353
4.7u
5V
3.3V
C1498
6.3V
47u
C1499
10V
1u
IN
OUT
SW
GND
100mA
200mW
2.5V
AAK_SUB-PB
K_SUB-PR
AAG_FBP
JSDG058
L1343
10u
C1347
4V
100u
C1606
10V
1u
C1749
50V
680p
IC1320
C0JBAM000095
RGB PROCESSOR
VCC
GND
3.3V
C1500
10V
1u
R1592
6.34k
1%
C1607
50V
470p
R1591
22k
1%
C1741
6.3V
3.3u
DG-BOARD TXNDG10JBV (4/6)
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(4of6)Schematic Diagram

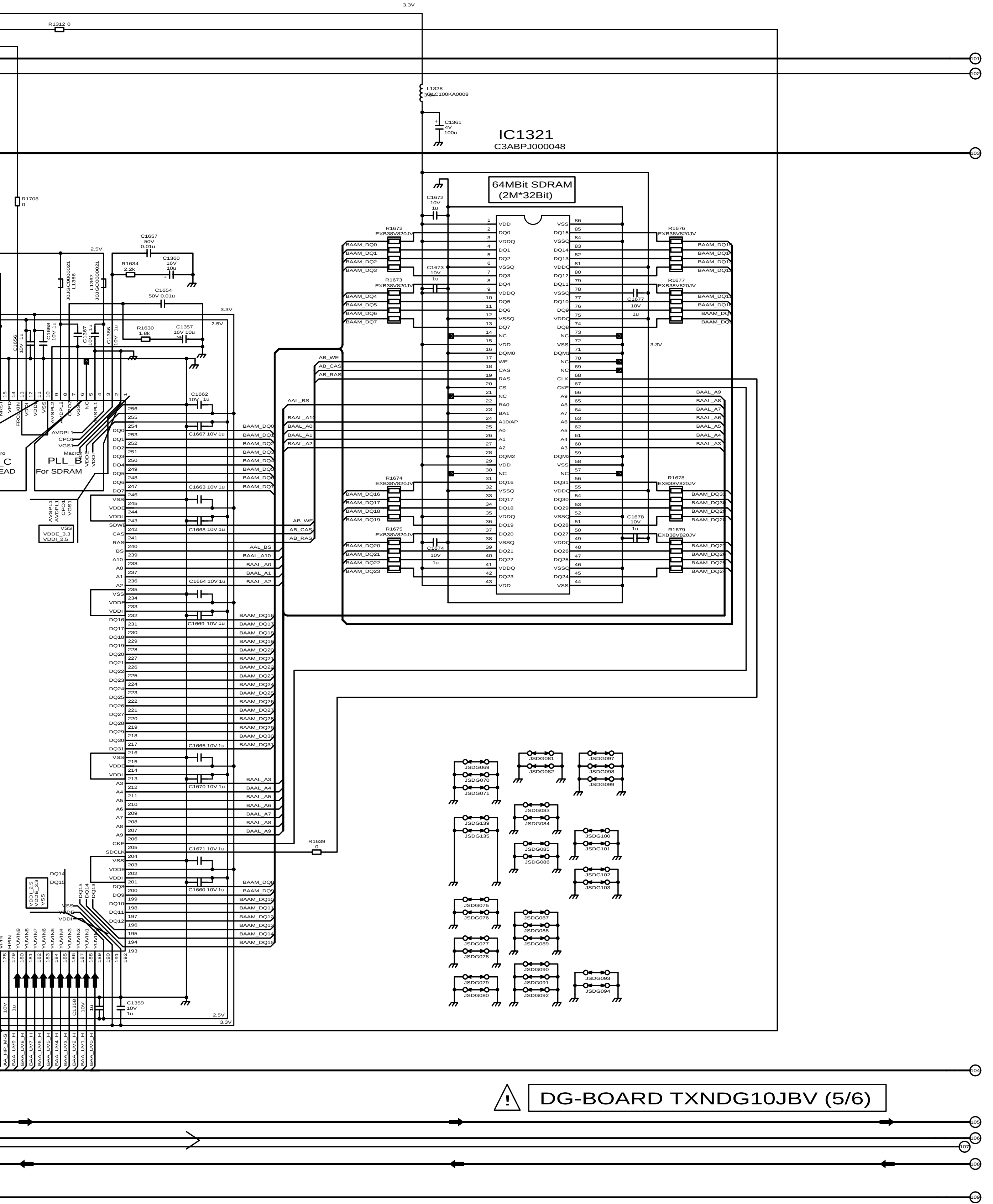
32 33 34 35 36

14.14. DG-Board (5 of 6) Schematic Diagram


IC1323
C0DBEZG00004
AVR 2.5V
IC1324
C0CBCAD00006
PQ1X251M2ZP
PLL 2.5V
IC1302
C1AB00001703
GC2S+
PLL_A
for FRONT
PLL_C
For FC READ
PLL_B
For SDRAM
AD Macro
< SLAVE > 24 / 2A (TEST=0)
28 / 26 (TEST=1)
HEAT SINK : TUC8E6692-1
TAPE : TWFT2020Q024
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(5of6)Schematic Diagram

37
38
39
40
41

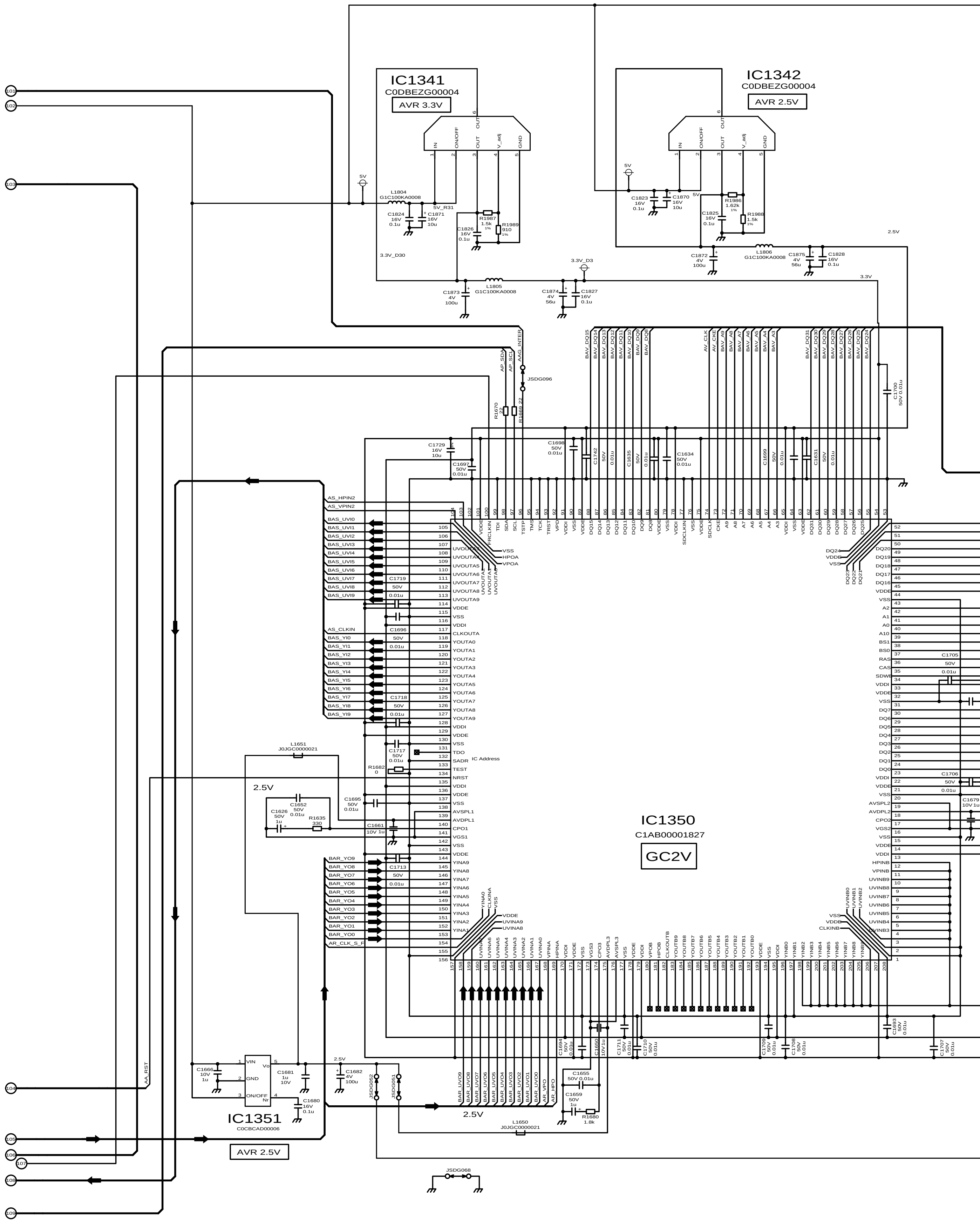

3.3V
R1312 0
L1328
J0JCC100KA0008
C1361
4V
100u
IC1321
C3ABPJ000048
64MBit SDRAM
(2M*32Bit)
C1672
10V
1u
C1673
10V
1u
C1674
10V
1u
C1677
10V
1u
C1678
10V
1u
R1672
EXB38V820JV
R1673
EXB38V820JV
R1674
EXB38V820JV
R1675
EXB38V820JV
R1676
EXB38V820JV
R1677
EXB38V820JV
R1678
EXB38V820JV
R1679
EXB38V820JV
R1708
0
R1634
2.2k
R1630
1.8k
R1639
0
C1657
50V
0.01u
C1360
16V
10u
C1654
50V 0.01u
C1357
16V 10u
C1656
C1658
C1367
C1366
C1662
C1663
C1664
C1665
C1667
C1668
C1669
C1670
C1671
C1660
C1358
C1359
L1366
L1367
J0JGC0000021
2.5V
PLL_B
For SDRAM
AVDPL1
CPO1
VGS1
VSS
VDDE_3.3
VDDI_2.5
AB_WE
AB_CAS
AB_RAS
AAL_BS
BAAL_A10
BAAL_A0
BAAL_A1
BAAL_A2
BAAL_A3
BAAL_A4
BAAL_A5
BAAL_A6
BAAL_A7
BAAL_A8
BAAL_A9
BAAM_DQ0
BAAM_DQ31
VDD
VSS
VDDQ
VSSQ
NC
DQM0
DQM1
DQM2
DQM3
WE
CAS
RAS
CS
BA0
BA1
A10/AP
CLK
CKE
JSDG069
JSDG070
JSDG071
JSDG081
JSDG082
JSDG097
JSDG098
JSDG099
JSDG083
JSDG084
JSDG139
JSDG135
JSDG085
JSDG086
JSDG100
JSDG101
JSDG102
JSDG103
JSDG075
JSDG076
JSDG087
JSDG088
JSDG089
JSDG077
JSDG078
JSDG090
JSDG091
JSDG092
JSDG079
JSDG080
JSDG093
JSDG094
101
102
103
104
105
106
107
108
109

DG-BOARD TXNDG10JBV (5/6)

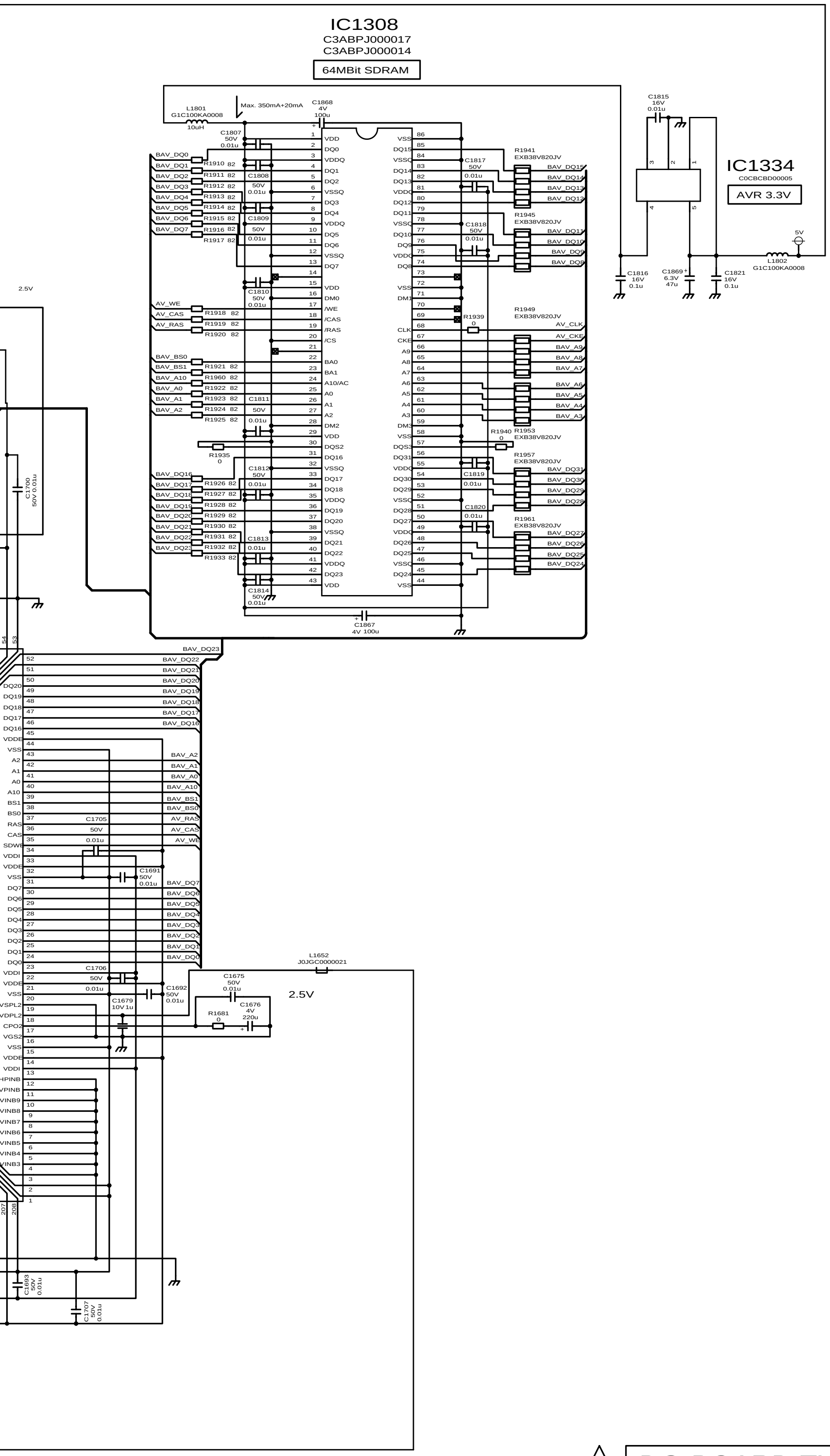
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(5of6)Schematic Diagram

41 42 43 44 45

14.15. DG-Board (6 of 6) Schematic Diagram


IC1341
C0DBEZG00004
AVR 3.3V
IN
ON/OFF
OUT
V_adj
GND
IC1342
C0DBEZG00004
AVR 2.5V
5V
L1804
G1C100KA0008
C1824
C1871
5V_R31
R1987
1.5k
R1989
910
C1826
3.3V_D30
L1805
G1C100KA0008
C1873
4V
100u
C1874
C1827
3.3V_D3
C1823
C1870
R1986
1.62k
R1988
1.5k
C1825
C1872
L1806
G1C100KA0008
C1875
C1828
2.5V
3.3V
AP_SDA
AP_SCL
AAG_INTER
JSDG096
R1670
R1669
C1729
C1697
C1698
C1742
C1635
C1634
C1699
C1631
C1700
AS_HPIN2
AS_VPIN2
BAS_UVI0
BAS_UVI1
BAS_UVI2
BAS_UVI3
BAS_UVI4
BAS_UVI5
BAS_UVI6
BAS_UVI7
BAS_UVI8
BAS_UVI9
AS_CLKIN
BAS_YI0
BAS_YI1
BAS_YI2
BAS_YI3
BAS_YI4
BAS_YI5
BAS_YI6
BAS_YI7
BAS_YI8
BAS_YI9
C1719
C1696
C1718
C1717
R1682
IC Address
L1651
J0JGC0000021
2.5V
C1652
C1626
R1635
330
C1695
C1661
BAR_YO9
BAR_YO8
BAR_YO7
BAR_YO6
BAR_YO5
BAR_YO4
BAR_YO3
BAR_YO2
BAR_YO1
BAR_YO0
AR_CLK_S_F
C1713
IC1350
C1AB00001827
GC2V
C1705
C1706
C1679
C1693
C1707
C1708
C1709
C1710
C1711
C1694
C1650
C1655
C1659
R1680
1.8k
L1650
J0JGC0000021
BAR_UVO9
BAR_UVO8
BAR_UVO7
BAR_UVO6
BAR_UVO5
BAR_UVO4
BAR_UVO3
BAR_UVO2
BAR_UVO1
BAR_UVO0
AR_VPO
AR_HPO
2.5V
JSDG052
JSDG051
C1682
C1666
C1681
C1680
VIN
Vo
GND
ON/OFF
Nr
IC1351
C0CBCAD00006
AVR 2.5V
AA_RST
JSDG068
101
102
103
104
105
106
107
108
109
46
47
48
49
50

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(6of6)Schematic Diagram

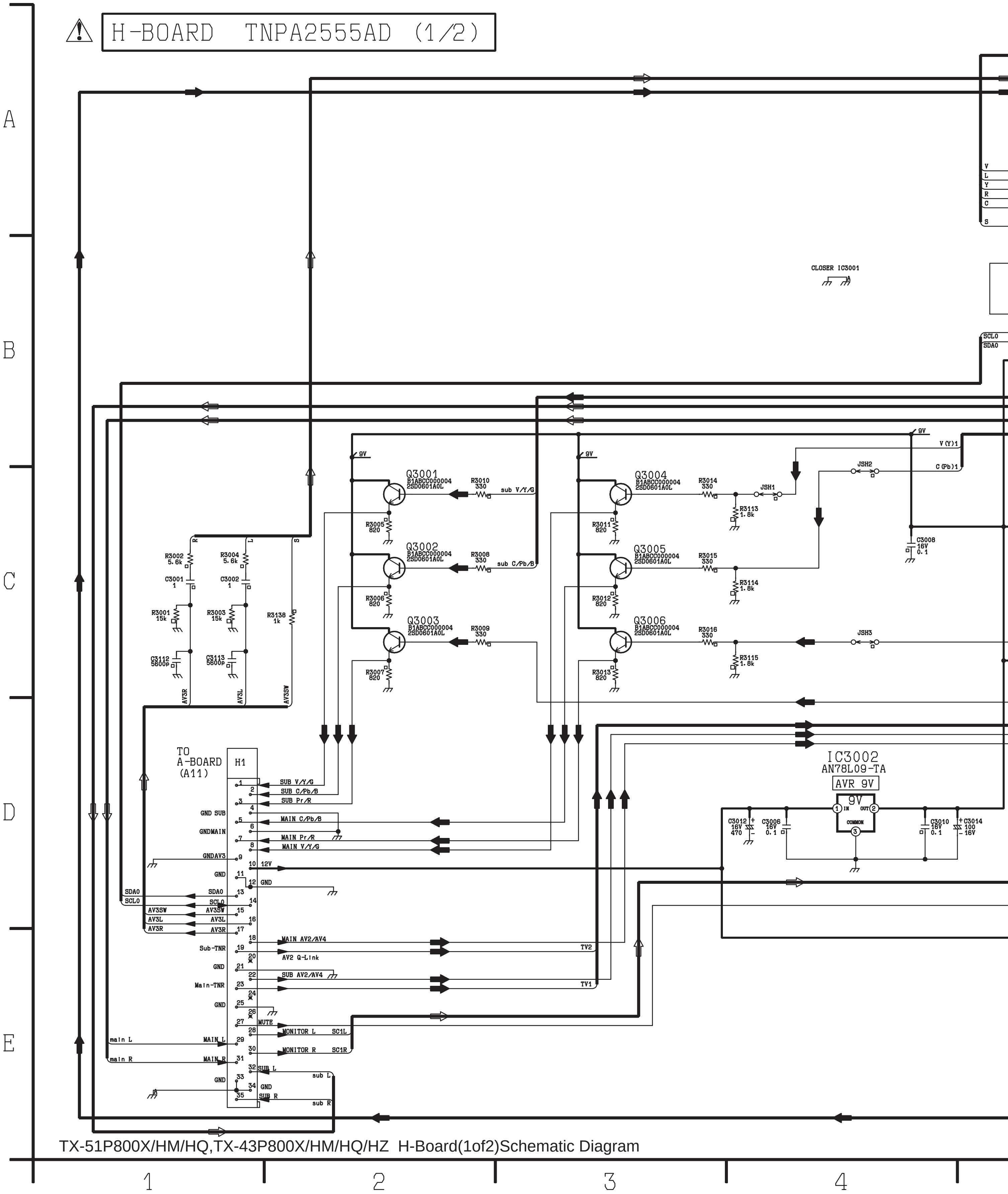

IC1308
C3ABPJ000017
C3ABPJ000014
64MBit SDRAM
IC1334
C0CBCBD00005
AVR 3.3V
L1801
G1C100KA0008
10uH
Max. 350mA+20mA
C1868
4V
100u
C1815
16V
0.01u
C1816
16V
0.1u
C1869
6.3V
47u
C1821
16V
0.1u
L1802
G1C100KA0008
5V
2.5V
C1867
4V 100u
R1941
EXB38V820JV
R1945
EXB38V820JV
R1949
EXB38V820JV
R1953
EXB38V820JV
R1957
EXB38V820JV
R1961
EXB38V820JV
R1939
R1940
R1935
L1652
J0JGC0000021
C1675
50V
0.01u
C1676
4V
220u
R1681
C1679
10V 1u
C1692
C1691
C1705
C1706
C1693
C1707
C1700
50V 0.01u

⚠ DG-BOARD TXNDG10JBV (6/6)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
DG-Board(6of6)Schematic Diagram

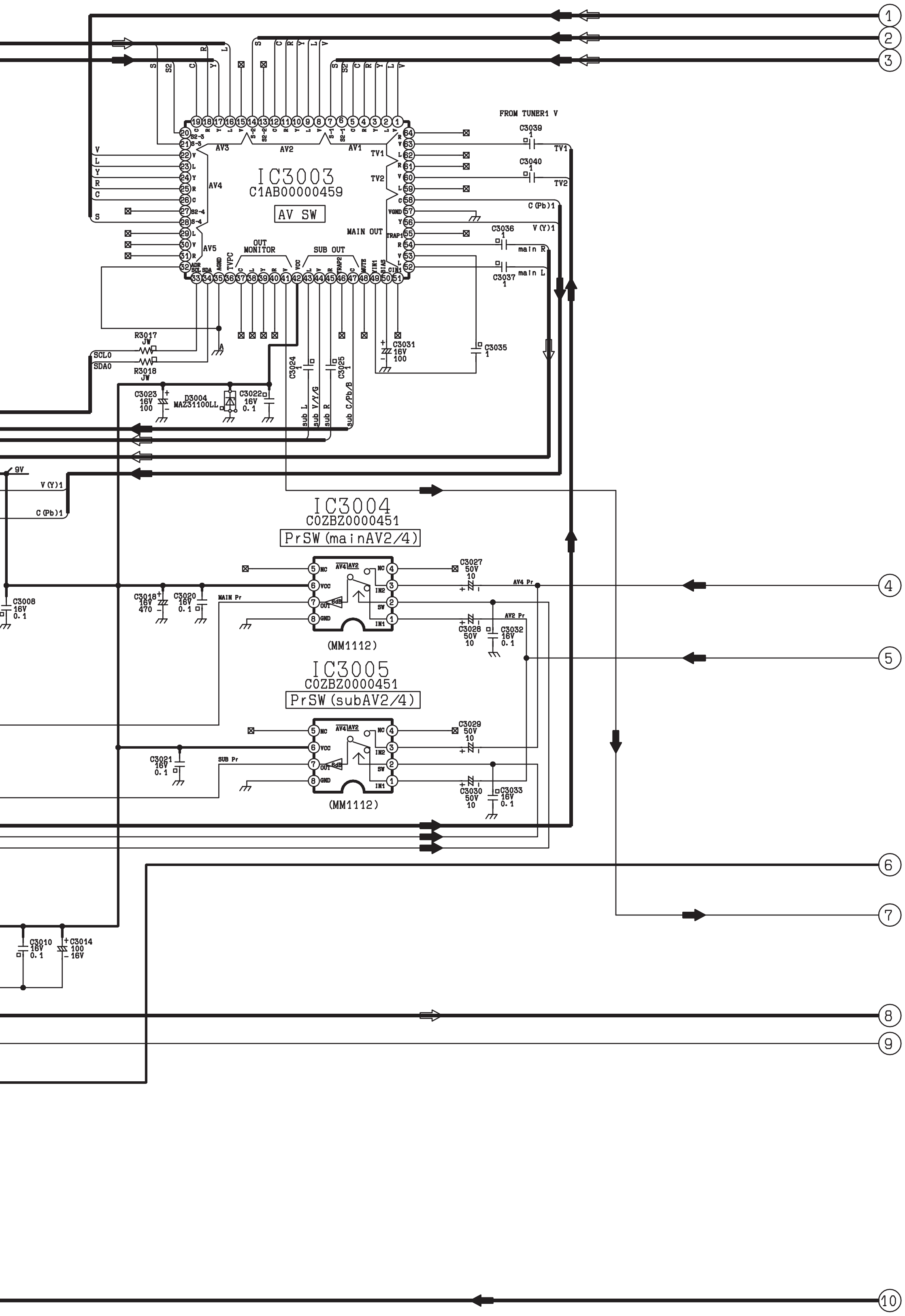
50 51 52 53 54

14.16. H-Board (1 of 2) Schematic Diagram



H-BOARD TNPA2555AD (1/2)
A
B
C
D
E
1
2
3
4
V
L
Y
R
C
S
CLOSER IC3001
SCL0
SDA0
9V
V(Y)1
C(Pb)1
JSH2
JSH1
JSH3
Q3001
B1ABCC000004
2SD0601A0L
Q3002
B1ABCC000004
2SD0601A0L
Q3003
B1ABCC000004
2SD0601A0L
Q3004
B1ABCC000004
2SD0601A0L
Q3005
B1ABCC000004
2SD0601A0L
Q3006
B1ABCC000004
2SD0601A0L
R3010 330
R3008 330
R3009 330
R3014 330
R3015 330
R3016 330
R3005 820
R3006 820
R3007 820
R3011 820
R3012 820
R3013 820
R3113 1.8k
R3114 1.8k
R3115 1.8k
sub V/Y/G
sub C/Pb/B
C3008 16V 0.1
R3002 5.6k
R3004 5.6k
C3001 1
C3002 1
R3001 15k
R3003 15k
R3138 1k
C3112 5600P
C3113 5600P
R
L
S
AV3R
AV3L
AV3SW
TO A-BOARD (A11)
H1
SUB V/Y/G
SUB C/Pb/B
SUB Pr/R
GND SUB
MAIN C/Pb/B
GNDMAIN
MAIN Pr/R
MAIN V/Y/G
GNDAV3
12V
GND
SDA0
SCL0
AV3SW
AV3L
AV3R
MAIN AV2/AV4
Sub-TNR
AV2 Q-Link
SUB AV2/AV4
Main-TNR
MUTE
MONITOR L
SC1L
MONITOR R
SC1R
main L
MAIN L
main R
MAIN R
SUB L
sub L
SUB R
sub R
TV2
TV1
IC3002
AN78L09-TA
AVR 9V
9V
IN
OUT
COMMON
C3012 16V 470
C3006 16V 0.1
C3010 16V 0.1
C3014 100 16V

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(1of2)Schematic Diagram

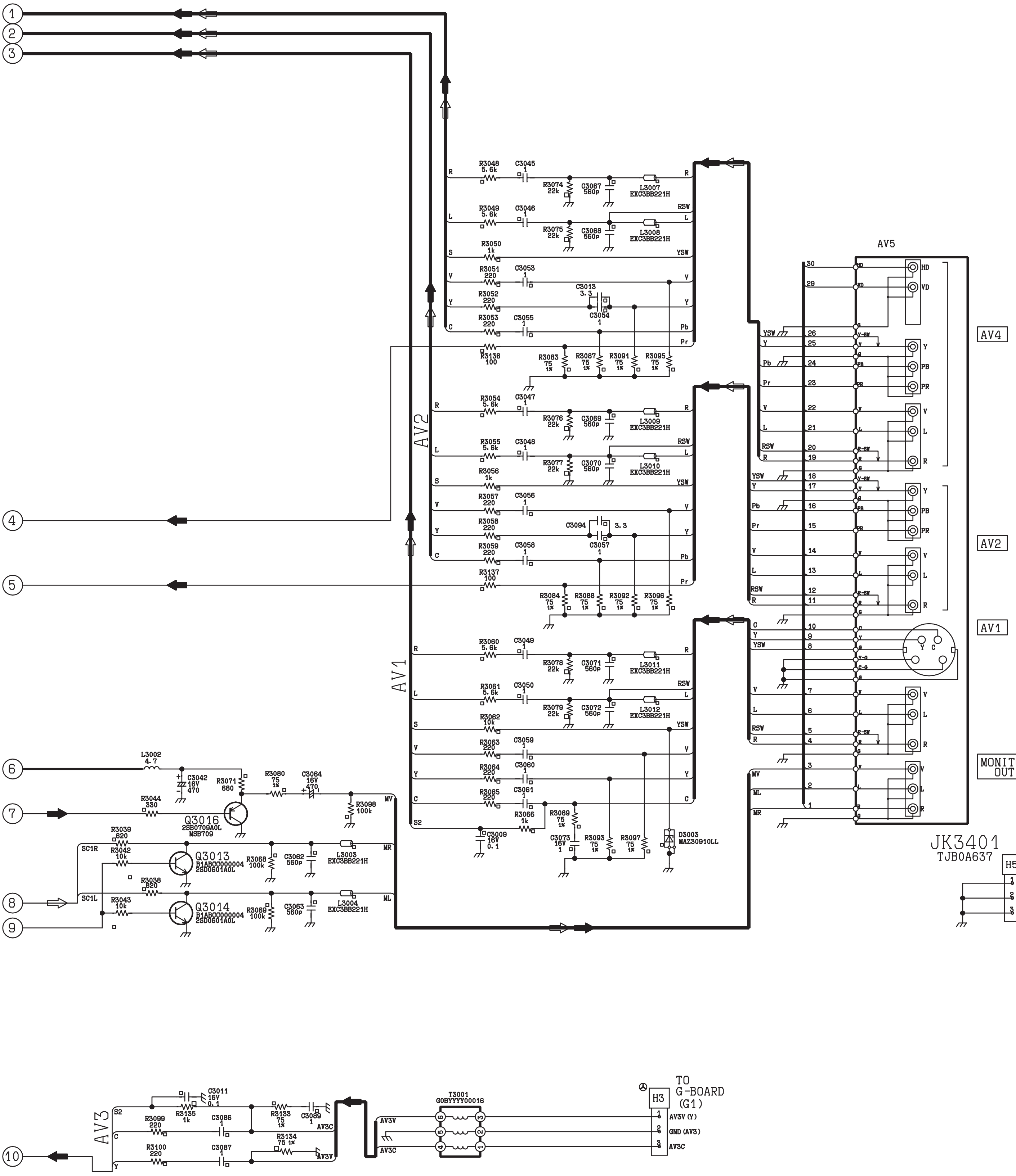


IC3003
C1AB00000459
AV SW
AV1
AV2
AV3
AV4
AV5
TV1
TV2
MAIN OUT
OUT MONITOR
SUB OUT
FROM TUNER1 V
C3039 1
C3040 1
C (Pb) 1
V (Y) 1
C3036 1
main R
main L
C3037 1
C3035 1
C3031 16V 100
R3017 JW
R3018 JW
SCL0
SDA0
C3023 16V 100
D3004 MAZ31100LL
C3022 16V 0.1
C3024 1
C3025 1
sub L
sub V/Y/G
sub R
sub C/Pb/B
9V
IC3004
C0ZBZ0000451
PrSW (mainAV2/4)
C3027 50V 10
AV4 Pr
AV2 Pr
C3028 50V 10
C3032 16V 0.1
C3018 16V 470
C3020 16V 0.1
C3008 16V 0.1
MAIN Pr
(MM1112)
IC3005
C0ZBZ0000451
PrSW (subAV2/4)
C3029 50V 10
C3030 50V 10
C3033 16V 0.1
C3021 16V 0.1
SUB Pr
(MM1112)
C3010 16V 0.1
C3014 100 16V
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(1of2)Schematic Diagram

5 6 7

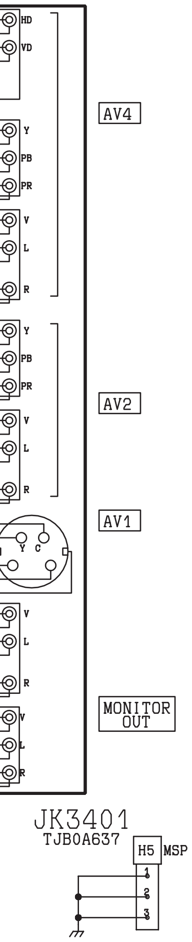
14.17. H-Board (2 of 2) Schematic Diagram



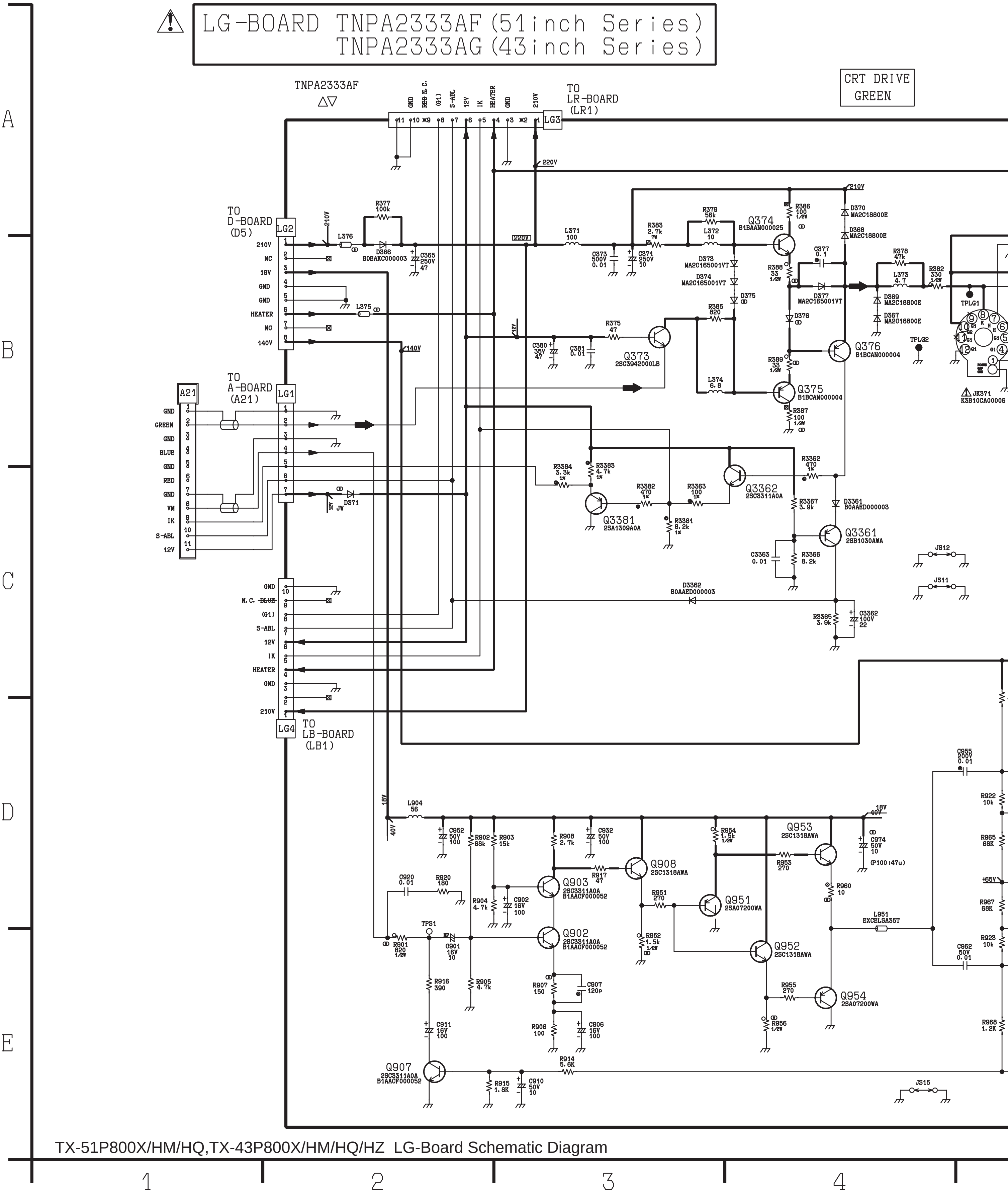
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
AV2
AV1
AV3
AV5
AV4
AV2
AV1
MONIT OUT
JK3401
TJB0A637
H5
R3048 5.6k
C3045 1
R3074 22k
C3067 560p
L3007 EXC3BB221H
R3049 5.6k
C3046 1
R3075 22k
C3068 560p
L3008 EXC3BB221H
R3050 1k
R3051 220
C3053 1
R3052 220
C3013 3.3
C3054 1
R3053 220
C3055 1
R3136 100
R3083 75 1%
R3087 75 1%
R3091 75 1%
R3095 75 1%
R3054 5.6k
C3047 1
R3076 22k
C3069 560p
L3009 EXC3BB221H
R3055 5.6k
C3048 1
R3077 22k
C3070 560p
L3010 EXC3BB221H
R3056 1k
R3057 220
C3056 1
R3058 220
C3094 3.3
R3059 220
C3058 1
C3057 1
R3137 100
R3084 75 1%
R3088 75 1%
R3092 75 1%
R3096 75 1%
R3060 5.6k
C3049 1
R3078 22k
C3071 560p
L3011 EXC3BB221H
R3061 5.6k
C3050 1
R3079 22k
C3072 560p
L3012 EXC3BB221H
R3062 10k
R3063 220
C3059 1
R3064 220
C3060 1
R3065 220
C3061 1
R3066 1k
R3089 75 1%
C3073 16V 1
R3093 75 1%
R3097 75 1%
D3003 MAZ30910LL
C3009 16V 0.1
L3002 4.7
C3042 16V 470
R3071 680
R3080 75 1%
C3064 16V 470
R3098 100k
R3044 330
Q3016 2SB0709A0L MSB709
R3039 820
R3042 10k
Q3013 B1ABCC000004 2SD0601A0L
R3068 100k
C3062 560p
L3003 EXC3BB221H
R3038 820
R3043 10k
Q3014 B1ABCC000004 2SD0601A0L
R3069 100k
C3063 560p
L3004 EXC3BB221H
SC1R
SC1L
MV
MR
ML
R
L
S
V
Y
C
S2
RSW
YSW
Pb
Pr
HD
VD
Y-SW
R-SW
C-G
Y-G
PB
PR
C3011 16V 0.1
R3099 220
R3135 1k
C3086 1
R3133 75 1%
C3089 1
R3134 75 1%
R3100 220
C3087 1
AV3C
AV3V
T3001 G0BYYYY00016
TO G-BOARD (G1)
H3
AV3V (Y)
GND (AV3)
AV3C
8
9
10
11

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ H-Board(2of2)Schematic Diagram

⚠ H-BOARD TNPA2555AD (2/2)

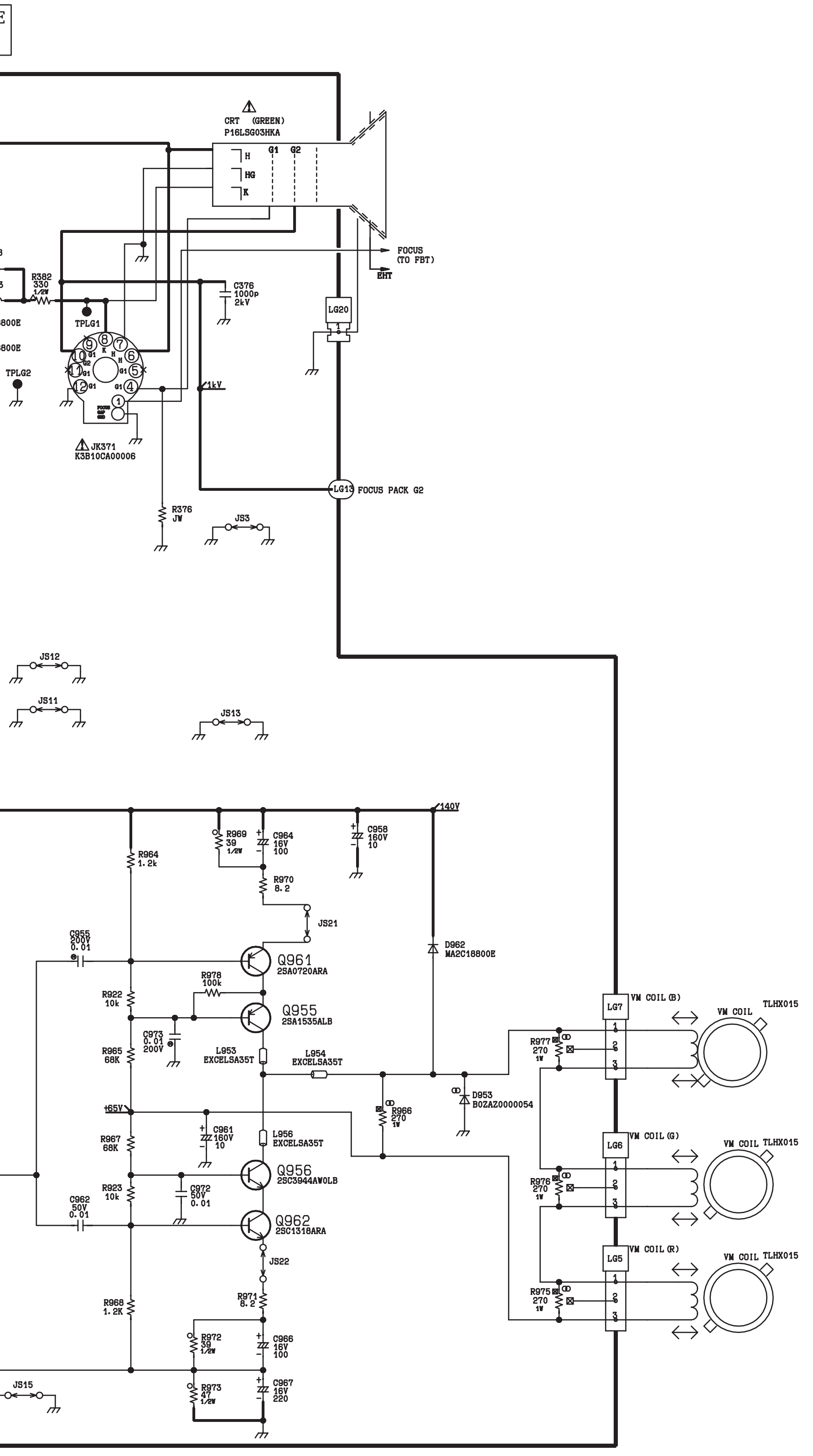

HD
VD
AV4
Y
PB
PR
V
L
R
Y
PB
PR
AV2
V
L
R
AV1
Y
C
V
L
R
MONITOR OUT
V
L
R
JK3401
TJB0A637
H5
MSP
1
2
3

14.18. LG-Board Schematic Diagram



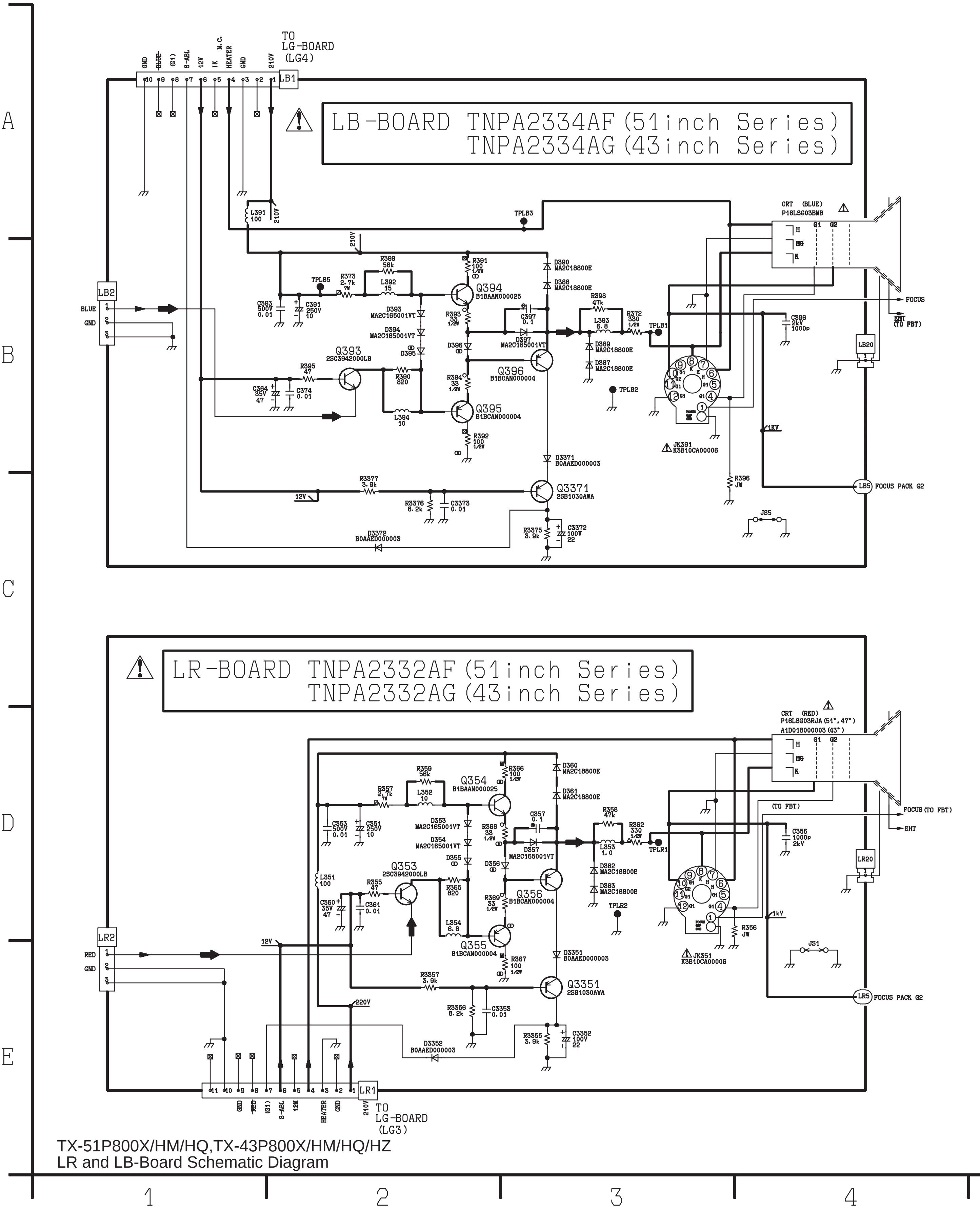
LG-BOARD TNPA2333AF (51inch Series)
TNPA2333AG (43inch Series)
TNPA2333AF
CRT DRIVE
GREEN
TO
LR-BOARD
(LR1)
LG3
GND
RED N.C.
(G1)
S-ABL
12V
IK
HEATER
GND
210V
220V
210V
TO
D-BOARD
(D5)
LG2
210V
NC
18V
GND
GND
HEATER
NC
140V
L376
R377
100k
D366
B0EAKC000003
C365
250V
47
L375
220V
L371
100
C373
500V
0.01
C371
250V
10
R383
2.7k
7W
R379
56k
L372
10
Q374
B1BAAN000025
R386
100
1/2W
D370
MA2C18800E
D368
MA2C18800E
C377
0.1
D373
MA2C165001VT
D374
MA2C165001VT
R388
33
1/2W
D377
MA2C165001VT
D375
R385
820
D376
R378
47k
L373
4.7
R382
330
1/2W
D369
MA2C18800E
D367
MA2C18800E
TPLG1
TPLG2
R375
47
C380
35V
47
C381
0.01
Q373
2SC3942000LB
12V
140V
R389
33
1/2W
Q376
B1BCAN000004
L374
6.8
Q375
B1BCAN000004
R387
100
1/2W
JK371
K3B10CA00006
A21
GND
GREEN
GND
BLUE
GND
RED
GND
VM
IK
S-ABL
12V
TO
A-BOARD
(A21)
LG1
D371
JW
R3384
3.3k
R3383
4.7k
R3382
470
R3363
100
Q3381
2SA1309A0A
R3381
8.2k
Q3362
2SC3311A0A
R3362
470
R3367
3.9k
D3361
B0AAED000003
Q3361
2SB1030AWA
C3363
0.01
R3366
8.2k
JS12
JS11
D3362
B0AAED000003
R3365
3.9k
C3362
100V
22
GND
N.C. BLUE
(G1)
S-ABL
12V
IK
HEATER
GND
210V
LG4
TO
LB-BOARD
(LB1)
18V
40V
L904
56
C952
50V
100
R902
68k
R903
15k
R908
2.7k
C932
50V
100
R954
1.5k
1/2W
Q953
2SC1318AWA
18V
40V
C974
50V
10
(P100:47u)
C955
200V
0.01
R922
10k
R965
68K
C920
0.01
R920
180
Q903
2SC3311A0A
B1AACF000052
R917
47
Q908
2SC1318AWA
R953
270
R960
10
+65V
R967
68K
R904
4.7k
C902
16V
100
R951
270
Q951
2SA07200WA
L951
EXCELSA35T
TPS1
R901
820
1/2W
C901
16V
10
Q902
2SC3311A0A
B1AACF000052
R952
1.5k
1/2W
Q952
2SC1318AWA
R923
10k
C962
50V
0.01
R916
390
R905
4.7k
R907
150
C907
120p
R955
270
Q954
2SA07200WA
C911
16V
100
R906
100
C906
16V
100
R956
1/2W
R968
1.2K
Q907
2SC3311A0A
B1AACF000052
R914
5.6K
R915
1.8K
C910
50V
10
JS15
A
B
C
D
E
1
2
3
4

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ LG-Board Schematic Diagram

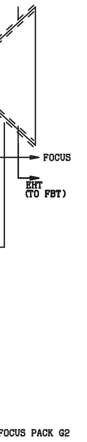

CRT (GREEN)
P16LSG03HKA
H
HG
K
G1
G2
FOCUS
(TO FBT)
EHT
R382
330
1/2W
C376
1000p
2kV
LG20
TPLG1
TPLG2
JK371
K3B10CA00006
1kV
LG13
FOCUS PACK G2
R376
JW
JS3
JS12
JS11
JS13
140V
R969
39
1/2W
C964
16V
100
C958
160V
10
R964
1.2k
R970
8.2
JS21
D962
MA2C18800E
C955
200V
0.01
Q961
2SA0720ARA
R978
100k
R922
10k
Q955
2SA1535ALB
C973
0.01
200V
R965
68K
L953
EXCELSA35T
L954
EXCELSA35T
D953
B0ZAZ0000054
R966
270
1W
+65V
C961
160V
10
L956
EXCELSA35T
R967
68K
Q956
2SC3944AW0LB
R923
10k
C972
50V
0.01
C962
50V
0.01
Q962
2SC1318ARA
JS22
R971
8.2
R968
1.2K
R972
39
1/2W
C966
16V
100
R973
47
1/2W
C967
16V
220
JS15
LG7
VM COIL (B)
VM COIL
TLHX015
R977
270
1W
LG6
VM COIL (G)
R976
270
1W
LG5
VM COIL (R)
R975
270
1W
5
6
7

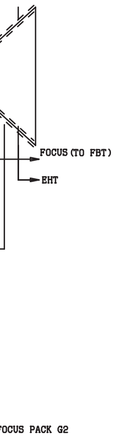
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ LG-Board Schematic Diagram

14.19. LR and LB-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
TO LG-BOARD (LG4)
LB1
GND
BLUE
(G1)
S-ABL
12V
IK
N.C.
HEATER
GND
210V
LB-BOARD TNPA2334AF (51inch Series)
TNPA2334AG (43inch Series)
CRT (BLUE)
P16LSG03BMB
G1
G2
H
HG
K
L391 100
210V
TPLB3
LB2
BLUE
GND
R399 56k
R391 100 1/2W
D390 MA2C18800E
D388 MA2C18800E
TPLB5
R373 2.7k 7W
L392 15
Q394
B1BAAN000025
C393 500V 0.01
C391 250V 10
D393 MA2C165001VT
D394 MA2C165001VT
D395
R393 33 1/2W
C397 0.1
D397 MA2C165001VT
R398 47k
L393 6.8
R372 330 1/2W
TPLB1
C396 2kV 1000P
FOCUS
EHT (TO FBT)
Q393
2SC3942000LB
D396
D389 MA2C18800E
D387 MA2C18800E
LB20
R395 47
R390 820
Q396
B1BCAN000004
C364 35V 47
C374 0.01
R394 33 1/2W
TPLB2
L394 10
Q395
B1BCAN000004
R392 100 1/2W
JK391
K3B10CA00006
1kV
D3371
B0AAED000003
R3377 3.9k
12V
Q3371
2SB1030AWA
R396 JW
LB5
FOCUS PACK G2
R3376 8.2k
C3373 0.01
JS5
D3372
B0AAED000003
R3375 3.9k
C3372 100V 22
LR-BOARD TNPA2332AF (51inch Series)
TNPA2332AG (43inch Series)
CRT (RED)
P16LSG03RJA (51", 47")
A1D018000003 (43")
R359 56k
R366 100 1/2W
D360 MA2C18800E
Q354
B1BAAN000025
R357 2.7k 7W
L352 10
D361 MA2C18800E
R358 47k
(TO FBT)
FOCUS (TO FBT)
EHT
C353 500V 0.01
C351 250V 10
D353 MA2C165001VT
R368 33 1/2W
C357 0.1
R362 330 1/2W
C356 1000P 2kV
D354 MA2C165001VT
D357 MA2C165001VT
L353 1.0
TPLR1
D355
D356
D362 MA2C18800E
LR20
Q353
2SC3942000LB
L351 100
R355 47
R365 820
Q356
D363 MA2C18800E
C360 35V 47
C361 0.01
R369 33 1/2W
B1BCAN000004
TPLR2
1kV
L354 6.8
R356 JW
LR2
RED
GND
12V
Q355
B1BCAN000004
JK351
K3B10CA00006
JS1
R367 100 1/2W
D3351
B0AAED000003
R3357 3.9k
Q3351
2SB1030AWA
LR5
FOCUS PACK G2
220V
R3356 8.2k
C3353 0.01
D3352
B0AAED000003
R3355 3.9k
C3352 100V 22
LR1
GND
RED
(G1)
S-ABL
12W
HEATER
GND
210V
TO LG-BOARD (LG3)

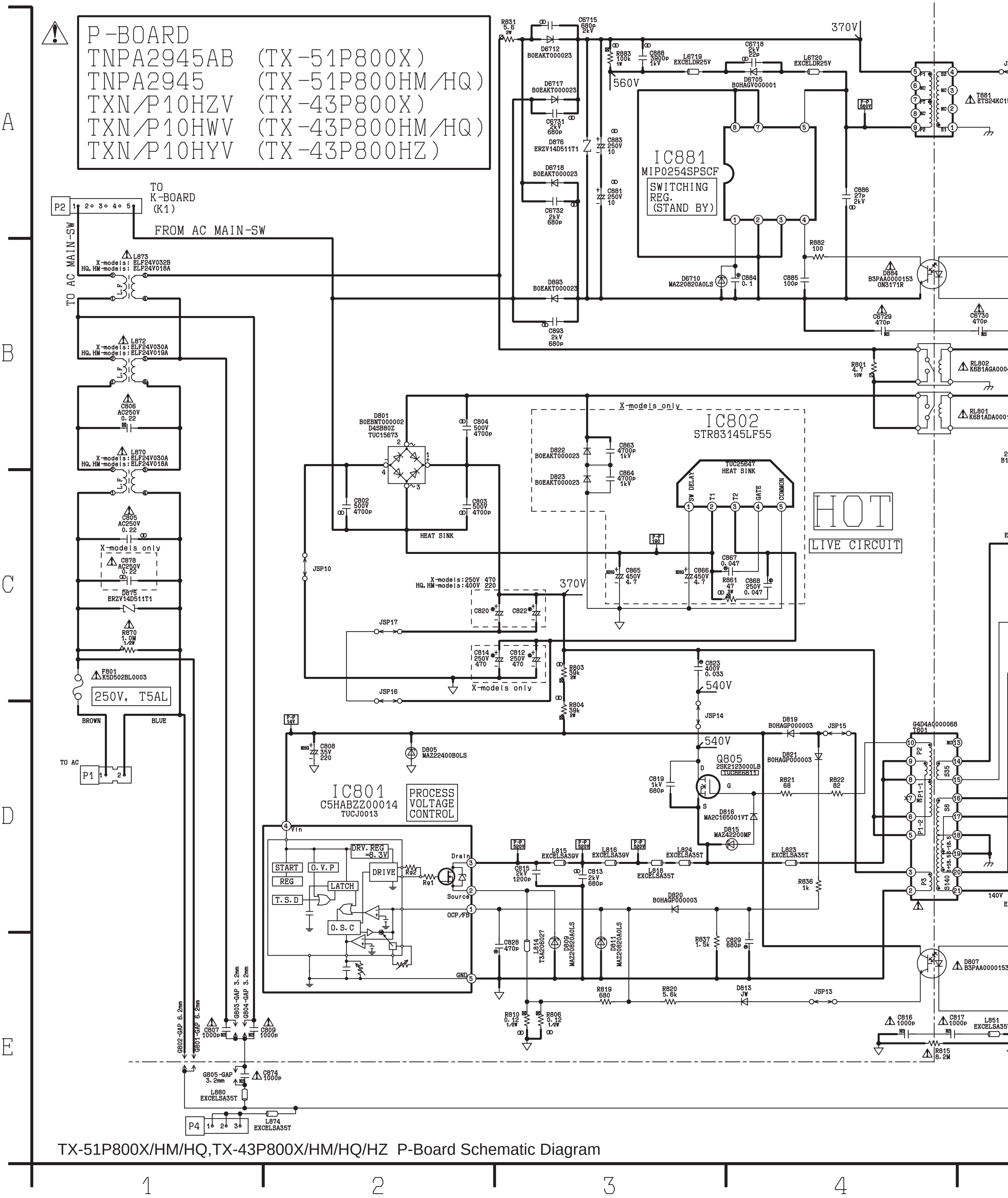
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
LR and LB-Board Schematic Diagram


FOCUS
EHT
(TO FBT)
FOCUS PACK G2

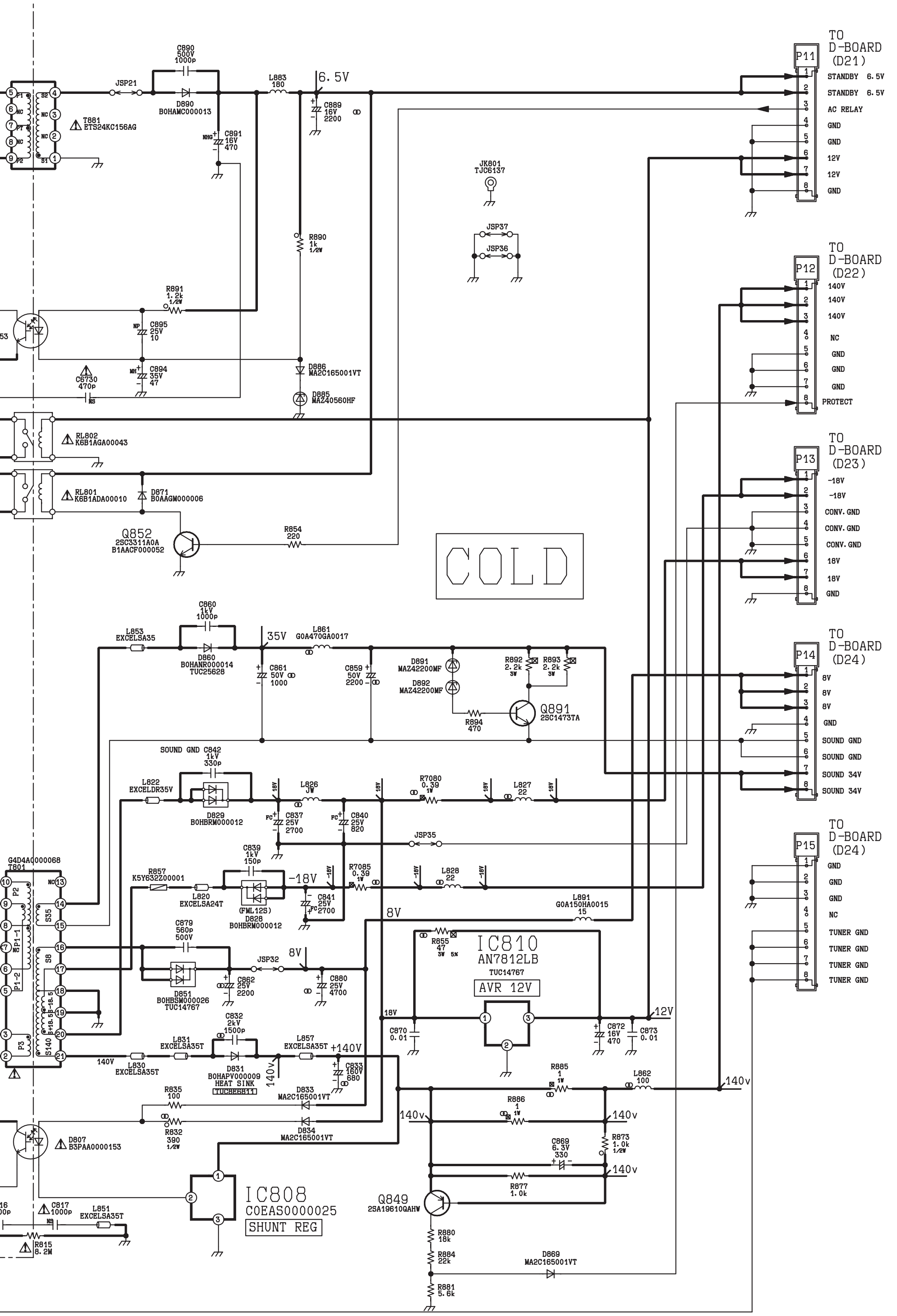

FOCUS (TO FBT)
EHT
FOCUS PACK G2

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
LR and LB-Board Schematic Diagram

14.20. P-Board Schematic Diagram

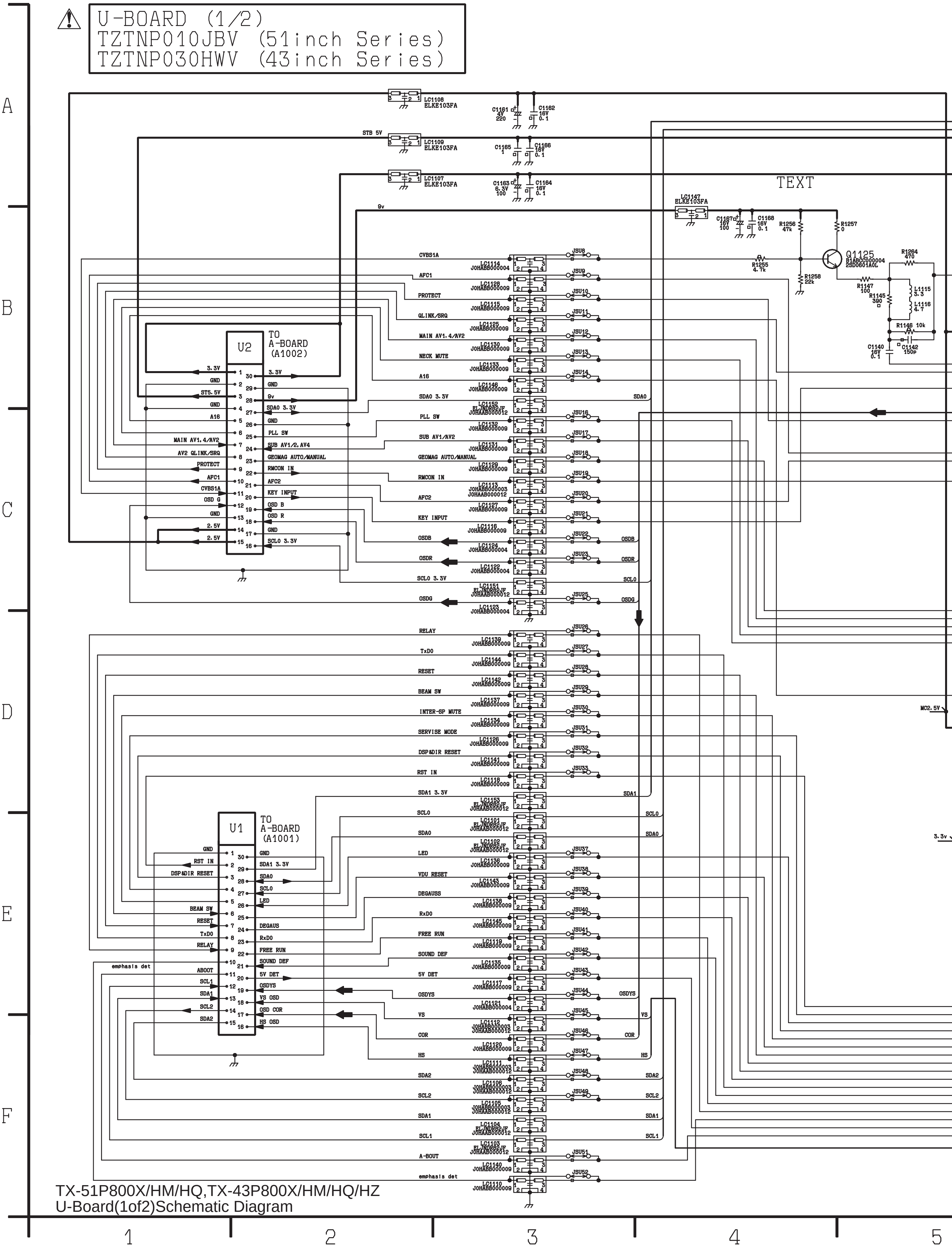

P-BOARD
TNPA2945AB (TX-51P800X)
TNPA2945 (TX-51P800HM/HQ)
TXN/P10HZV (TX-43P800X)
TXN/P10HWV (TX-43P800HM/HQ)
TXN/P10HYV (TX-43P800HZ)
A
B
C
D
E
1
2
3
4
P2
TO K-BOARD (K1)
FROM AC MAIN-SW
TO AC MAIN-SW
L873
X-models: ELF24V032B
HQ, HM-models: ELF24V018A
L.F
L872
X-models: ELF24V030A
HQ, HM-models: ELF24V019A
C806
AC250V
0.22
L870
X-models: ELF24V030A
HQ, HM-models: ELF24V018A
C805
AC250V
0.22
X-models only
C878
AC250V
0.22
D875
ERZV14D511T1
R870
1.0M
1/2W
F801
K5D502BL0003
250V, T5AL
BROWN
BLUE
TO AC
P1
R831
5.6
2W
C6715
680p
2kV
D6712
B0EAKT000023
D6717
B0EAKT000023
C6731
2kV
680p
D876
ERZV14D511T1
D6718
B0EAKT000023
C6732
2kV
680p
D893
B0EAKT000023
C893
2kV
680p
R883
100k
1W
C888
3900p
1kV
560V
L6719
EXCELDR25V
C6718
2kV
22p
D6705
B0HAGV000001
L6720
EXCELDR25V
370V
C883
250V
10
C881
250V
10
IC881
MIP0254SPSCF
SWITCHING REG. (STAND BY)
C886
27p
2kV
P-P 560V
T881
ETS24KC1
P1
P2
PT
NC
S1
S2
R882
100
D6710
MAZ20820A0LS
C884
0.1
C885
100p
D884
B3PAA0000153
ON3171R
C6729
470p
C6730
470p
NS
R801
4.7
10W
RL802
K6B1AGA000
RL801
K6B1ADA000
D801
B0EBNT000002
D4SB80Z
TUC15673
C804
500V
4700p
C802
500V
4700p
C803
500V
4700p
HEAT SINK
X-models only
IC802
STR83145LF55
D822
B0EAKT000023
C863
4700p
1kV
D823
B0EAKT000023
C864
4700p
1kV
TUC25647
HEAT SINK
SW DELAY
T1
T2
GATE
COMMON
HOT
LIVE CIRCUIT
P-P 190
C865
450V
4.7
C866
450V
4.7
NHG
C867
0.047
R861
47
3W
C868
250V
0.047
JSP10
X-models: 250V 470
HQ, HM-models: 400V 220
C820
C822
370V
JSP17
C814
250V
470
C812
250V
470
X-models only
JSP16
R803
39k
2W
R804
39k
2W
C823
400V
0.033
540V
JSP14
P-P 14V
C808
35V
220
D805
MAZ22400B0LS
IC801
C5HABZZ00014
TUCJ0013
PROCESS VOLTAGE CONTROL
Vin
START
REG
O.V.P
DRV. REG =8.3V
DRIVE
LATCH
T.S.D
O.S.C
Rg2
Rg1
Drain
Source
OCP/FB
GND
P-P 520V
L815
EXCELSA39V
C815
2kV
1200p
L816
EXCELSA39V
C813
2kV
680p
L818
EXCELSA35T
L824
EXCELSA35T
C828
470p
L814
T3A206027
D809
MAZ20820A0LS
D811
MAZ20820A0LS
R810
0.12
1/2W
R806
0.12
1/2W
R819
680
R820
5.6k
D820
B0HAGP000003
R837
1.5k
C829
680p
D813
JW
JSP13
540V
Q805
2SK2123000LB
TUC8E6811
D
G
S
C819
1kV
680p
D816
MA2C165001VT
D815
MAZ42200MF
D819
B0HAGP000003
JSP15
D821
B0HAGP000003
R821
68
R822
82
L823
EXCELSA35T
R836
1k
G4D4A0000068
T801
P2
P1-1
P1-2
P3
S35
S8
S+18.5
S-18.5
S140
NC
140V
D807
B3PAA0000153
C816
1000p
C817
1000p
L851
EXCELSA35T
R815
8.2M
G802-GAP 6.2mm
G801-GAP 6.2mm
G803-GAP 3.2mm
G804-GAP 3.2mm
C807
1000p
C809
1000p
G805-GAP 3.2mm
C874
1000p
L880
EXCELSA35T
P4
L874
EXCELSA35T

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ P-Board Schematic Diagram


TO D-BOARD (D21)
P11
STANDBY 6.5V
STANDBY 6.5V
AC RELAY
GND
GND
12V
12V
GND
TO D-BOARD (D22)
P12
140V
140V
140V
NC
GND
GND
GND
PROTECT
TO D-BOARD (D23)
P13
-18V
-18V
CONV.GND
CONV.GND
CONV.GND
18V
18V
GND
TO D-BOARD (D24)
P14
8V
8V
8V
GND
SOUND GND
SOUND GND
SOUND 34V
SOUND 34V
TO D-BOARD (D24)
P15
GND
GND
GND
NC
TUNER GND
TUNER GND
TUNER GND
TUNER GND
COLD
T881 ETS24KC156AG
C890 500V 1000p
JSP21
D890 B0HAMC000013
C891 16V 470
L883 180
6.5V
C889 16V 2200
JK801 TJC6137
JSP37
JSP36
R890 1k 1/2W
R891 1.2k 1/2W
C895 25V 10
C894 35V 47
C6730 470p
D886 MA2C165001VT
D885 MAZ40560HF
RL802 K6B1AGA00043
RL801 K6B1ADA00010
D871 B0AAGM000006
Q852 2SC3311A0A B1AACF000052
R854 220
C860 1kV 1000p
L853 EXCELSA35
D860 B0HANR000014 TUC25628
35V
L861 G0A470GA0017
C861 50V 1000
C859 50V 2200
D891 MAZ42200MF
D892 MAZ42200MF
R892 2.2k 3W
R893 2.2k 3W
R894 470
Q891 2SC1473TA
SOUND GND C842 1kV 330p
L822 EXCELDR35V
D829 B0HBRM000012
L826 JW
C837 25V 2700
C840 25V 820
R7080 0.39 1W
L827 22
18V
JSP35
G4D4A0000068 T801
C839 1kV 150p
R857 K5Y632Z00001
L820 EXCELSA24T
-18V
(FML12S) D828 B0HBRM000012
R7085 0.39 1W
L828 22
C841 25V 2700
8V
L891 G0A150HA0015 15
C879 560p 500V
JSP32
8V
D851 B0HBSM000026 TUC14767
C862 25V 2200
C880 25V 4700
R855 47 3W 5%
IC810 AN7812LB TUC14767
AVR 12V
12V
C870 0.01
C872 16V 470
C873 0.01
C832 2kV 1500p
L831 EXCELSA35T
L857 EXCELSA35T
+140V
140V
L830 EXCELSA35T
D831 B0HAPV000009 HEAT SINK TUC8E6811
C833 160V 680
R835 100
D833 MA2C165001VT
R885 1 1W
L862 100
140V
R886 1 1W
140V
R832 390 1/2W
D834 MA2C165001VT
D807 B3PAA0000153
C869 6.3V 330
R873 1.0k 1/2W
R877 1.0k
IC808 C0EAS0000025 SHUNT REG
Q849 2SA1961 0QAHW
C817 1000p
L851 EXCELSA35T
R815 8.2M
R880 18k
R884 22k
D869 MA2C165001VT
R881 5.6k

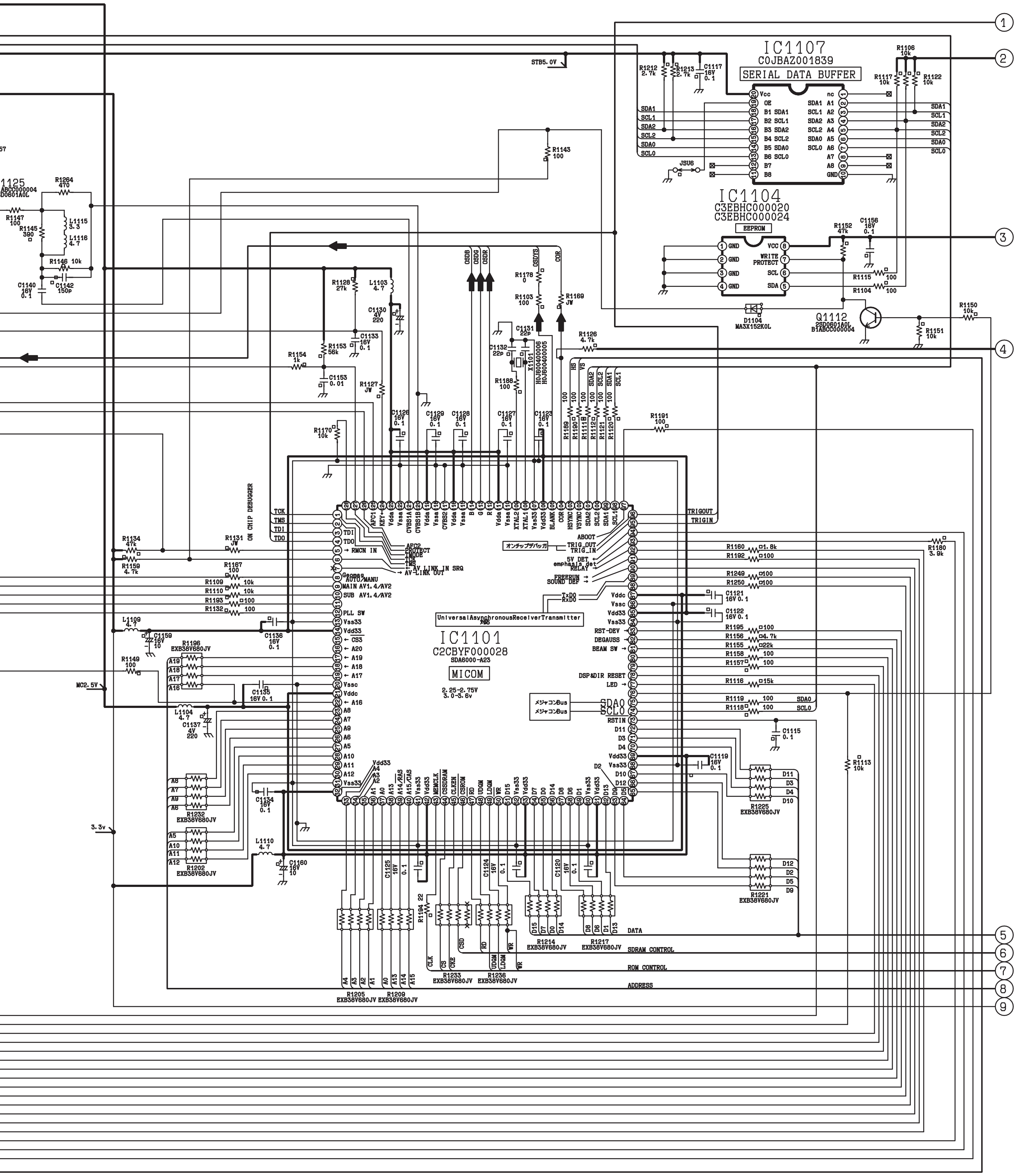
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
P-Board Schematic Diagram

14.21. U-Board (1 of 2) Schematic Diagram



U-BOARD (1/2)
TZTNP010JBV (51inch Series)
TZTNP030HWV (43inch Series)
A
B
C
D
E
F
1
2
3
4
5
LC1108
ELKE103FA
LC1109
ELKE103FA
LC1107
ELKE103FA
STB 5V
9v
C1161
C1162
C1165
C1166
C1163
C1164
TEXT
LC1147
ELKE103FA
C1167
C1168
R1256
47k
R1257
0
R1255
4.7k
R1258
22k
Q1125
B1ABCC000004
2SD0601A0L
R1264
470
R1147
100
R1145
390
L1115
3.3
L1116
4.7
R1146 10k
C1140
C1142
150p
U2
TO
A-BOARD
(A1002)
U1
TO
A-BOARD
(A1001)
3.3V
GND
ST5.5V
A16
MAIN AV1.4/AV2
AV2 GLINK/SRQ
PROTECT
AFC1
CVBS1A
OSD G
2.5V
SDA0 3.3V
PLL SW
SUB AV1/2.AV4
GEOMAG AUTO/MANUAL
RMCON IN
AFC2
KEY INPUT
OSD B
OSD R
SCL0 3.3V
GLINK/SRQ
MAIN AV1.4/AV2
NECK MUTE
OSDB
OSDR
OSDG
SDA0
SCL0
RELAY
TxD0
RESET
BEAM SW
INTER-SP MUTE
SERVISE MODE
DSP&DIR RESET
RST IN
SDA1 3.3V
SDA1
SCL1
LED
VDU RESET
DEGAUSS
RxD0
FREE RUN
SOUND DEF
5V DET
OSDYS
VS
COR
HS
SDA2
SCL2
A-BOUT
emphasis det
ABOOT
VS OSD
OSD COR
HS OSD
MC2.5V
3.3v
JOHABB000004
JOHABB000009
JOHAAB000012
EL1ND882JF

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(1of2)Schematic Diagram

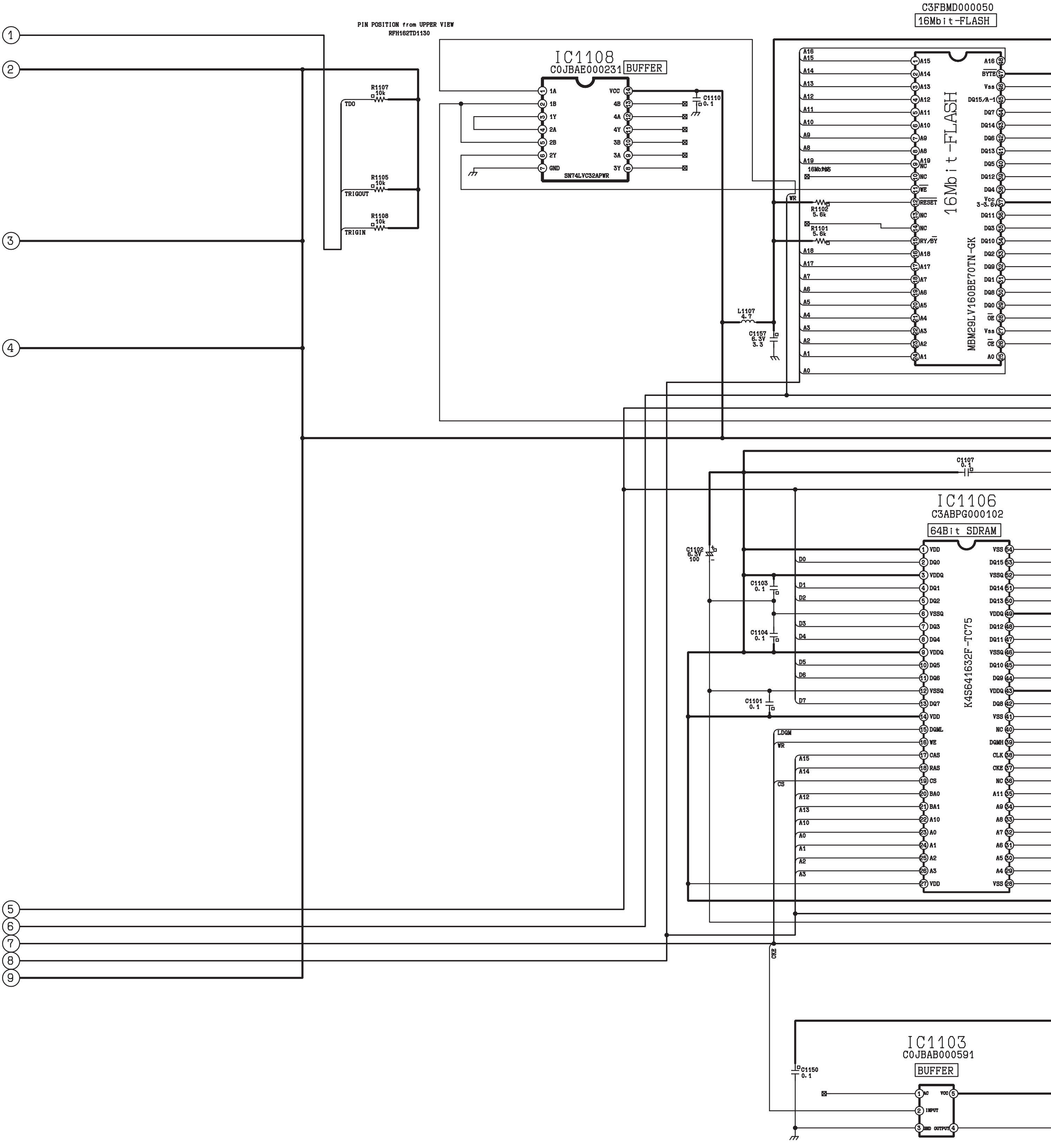

IC1107
C0JBAZ001839
SERIAL DATA BUFFER
IC1104
C3EBHC000020
C3EBHC000024
EEPROM
IC1101
C2CBYF000028
SDA6000-A23
MICOM
UniversalAsynchronousReceiverTransmitter
ON CHIP DEBUGGER
Q1112
D1104
MA3X152K0L
STB5.0V
MC2.5V
3.3v
DATA
SDRAM CONTROL
ROM CONTROL
ADDRESS
①
②
③
④
⑤
⑥
⑦
⑧
⑨

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(1of2)Schematic Diagram

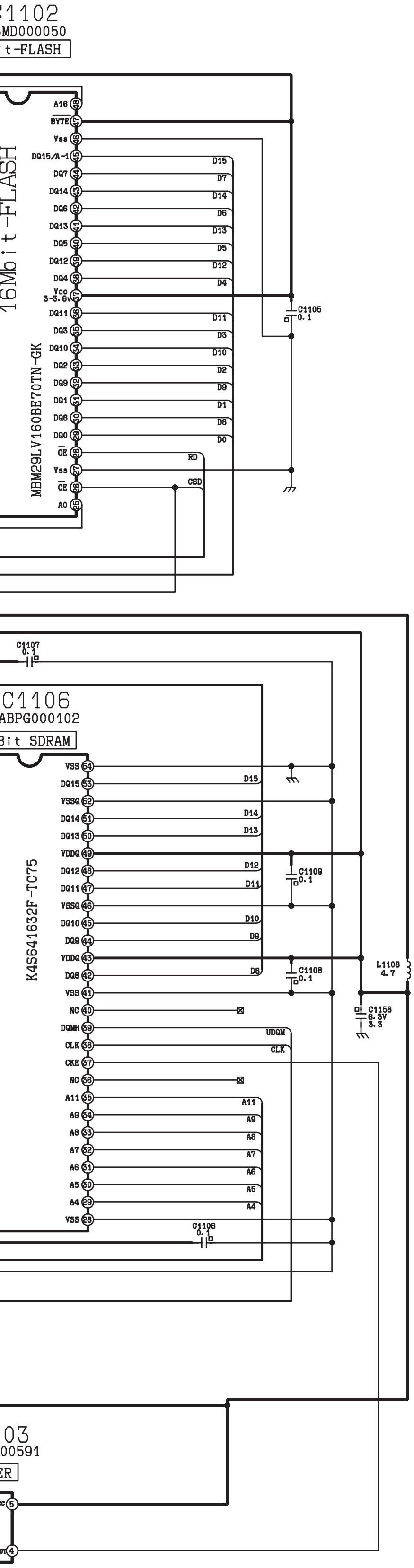
5 6 7 8 9

14.22. U-Board (2 of 2) Schematic Diagram

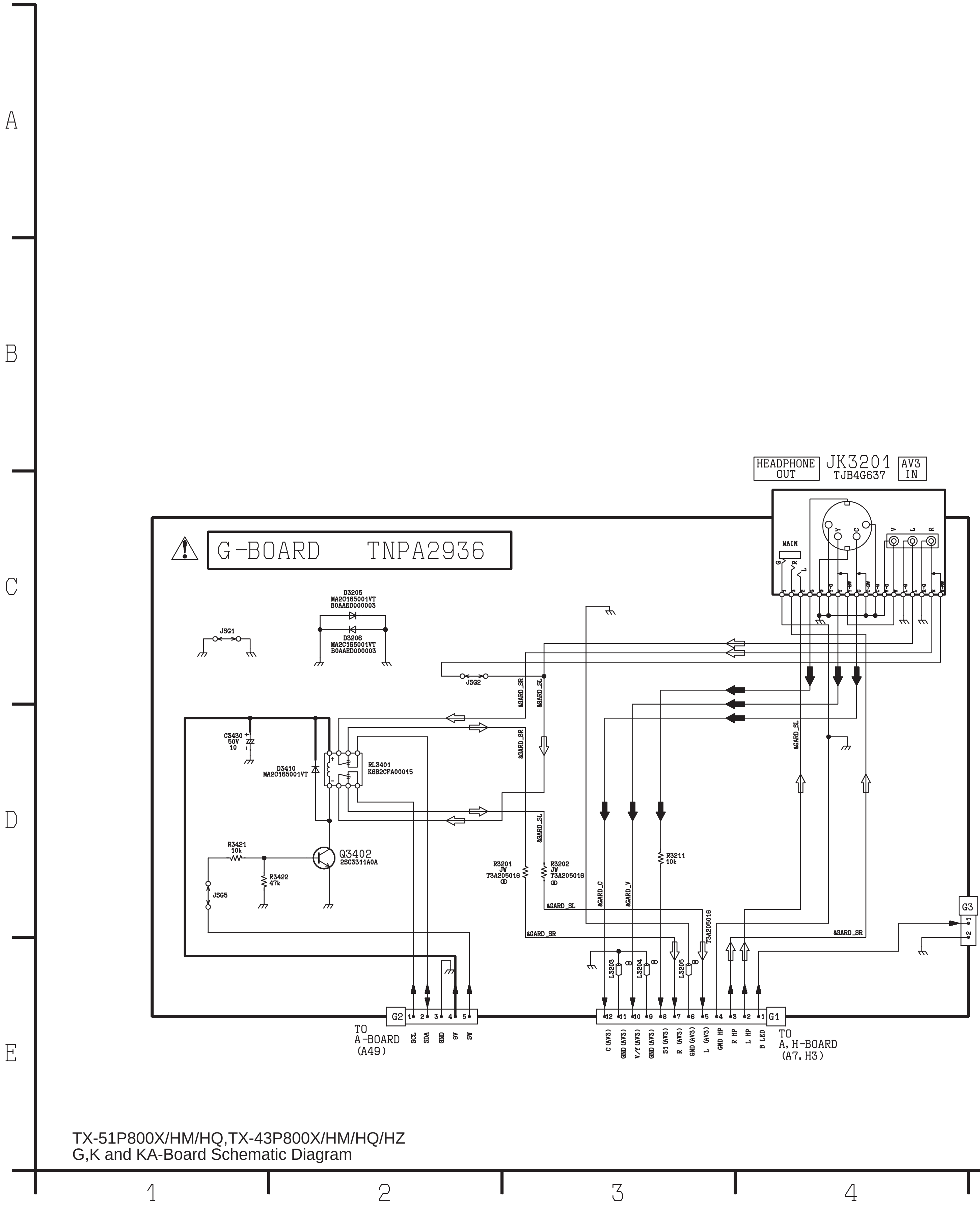
U-BOARD (2/2)
TZTNP010JBV (51inch Series)
TZTNP030HWV (43inch Series)


PIN POSITION from UPPER VIEW
RFH162TD1130
IC1108
C0JBAE000231
BUFFER
SN74LVC32APWR
1A
1B
1Y
2A
2B
2Y
GND
VCC
4B
4A
4Y
3B
3A
3Y
C1110 0.1
R1107 10k
TDO
R1105 10k
TRIGOUT
R1108 10k
TRIGIN
IC1102
C3FBMD000050
16Mbit-FLASH
MBM29LV160BE70TN-GK
16Mbit-FLASH
WR
R1102 5.6k
R1101 5.6k
L1107 4.7
C1157 6.3V 3.3
16Mb N.C
BYTE
Vss
DQ15/A-1
RESET
RY/BY
Vcc 3-3.6V
OE
CE
IC1106
C3ABPG000102
64Bit SDRAM
K4S641632F-TC75
C1107 0.1
C1102 6.3V 100
C1103 0.1
C1104 0.1
C1101 0.1
LDQM
WR
CS
CKE
VDD
VDDQ
VSSQ
DQML
WE
CAS
RAS
BA0
BA1
VSS
DQMH
CLK
IC1103
C0JBAB000591
BUFFER
C1150 0.1
AC
INPUT
GND
OUTPUT
VCC
1
2
3
4
5
6
7
8
9
10
11
12
13

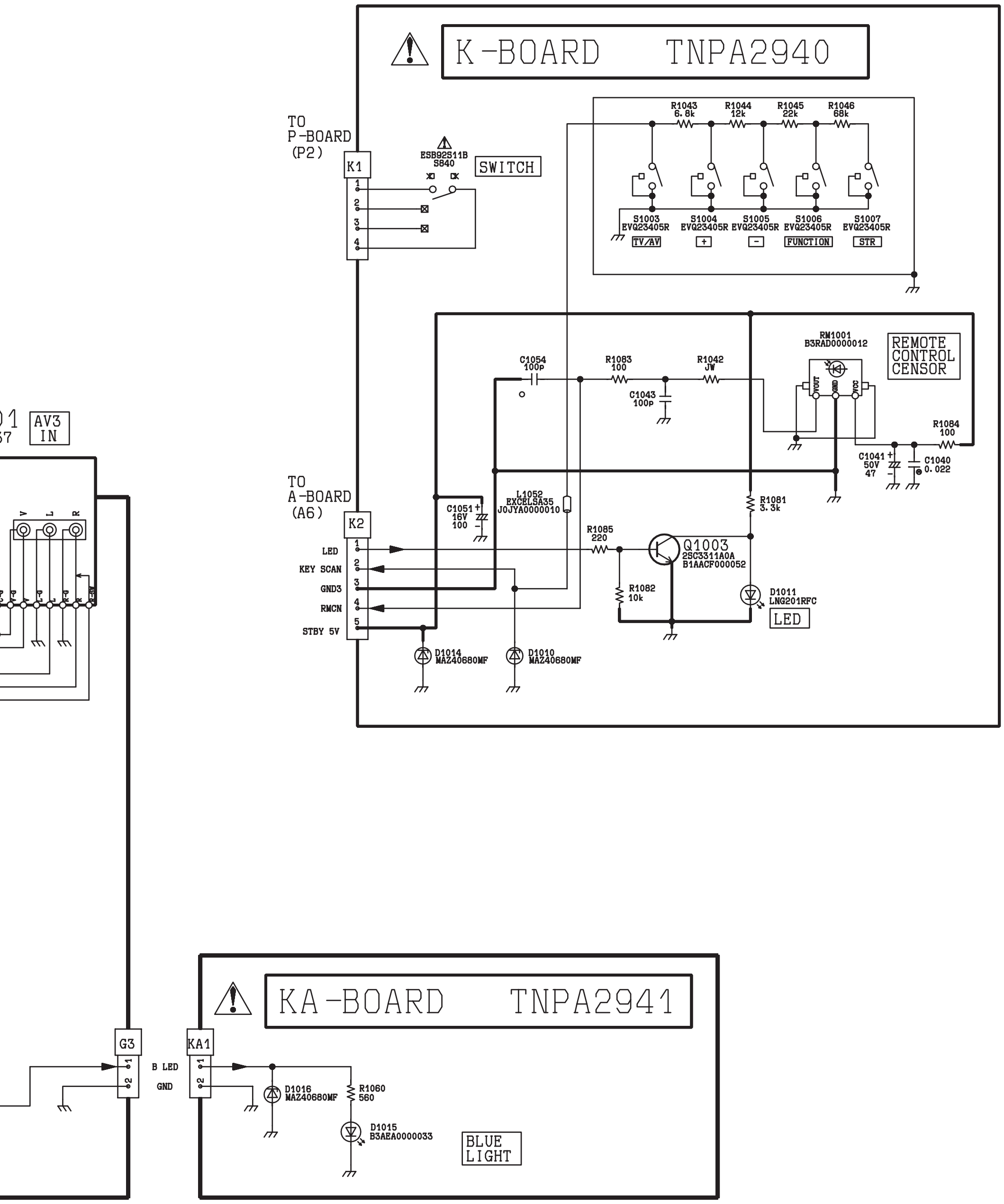
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
U-Board(2of2)Schematic Diagram


C1102
MD000050
t-FLASH
16Mbit-FLASH
MBM29LV160BE70TN-GK
A16
BYTE
Vss
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
Vcc 3-3.6V
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE
Vss
CE
A0
D15
D7
D14
D6
D13
D5
D12
D4
D11
D3
D10
D2
D9
D1
D8
D0
RD
CSD
C1105 0.1
C1107 0.1
C1106
ABPG000102
Bit SDRAM
K4S641632F-TC75
VSS 54
DQ15 53
VSSQ 52
DQ14 51
DQ13 50
VDDQ 49
DQ12 48
DQ11 47
VSSQ 46
DQ10 45
DQ9 44
VDDQ 43
DQ8 42
VSS 41
NC 40
DQMH 39
CLK 38
CKE 37
NC 36
A11 35
A9 34
A8 33
A7 32
A6 31
A5 30
A4 29
VSS 28
D15
D14
D13
D12
D11
D10
D9
D8
UDQM
CLK
A11
A9
A8
A7
A6
A5
A4
C1109 0.1
C1108 0.1
L1108 4.7
C1158 6.3V 3.3
C1106 0.1
03
00591
ER
5
4

14.23. G, K and KA Board Schematic Diagram


A
B
C
D
E
1
2
3
4
G-BOARD TNPA2936
HEADPHONE OUT
JK3201
TJB4G637
AV3 IN
MAIN
G
R
L
Y
C
V
L
R
1
3
2
G
G
Y-G
Y
Y-SW
C
C-SW
C-G
V-G
V
L-G
L
R-G
R
R-SW
D3205
MA2C165001VT
B0AAED000003
D3206
MA2C165001VT
B0AAED000003
JSG1
JSG2
JSG5
&GARD_SR
&GARD_SL
C3430
50V
10
D3410
MA2C165001VT
RL3401
K6B2CFA00015
R3421
10k
R3422
47k
Q3402
2SC3311A0A
R3201
JW
T3A205016
R3202
JW
T3A205016
R3211
10k
&GARD_C
&GARD_Y
T3A205016
L3203
L3204
L3205
G3
1
2
G2
1
2
3
4
5
TO
A-BOARD
(A49)
SCL
SDA
GND
9V
SW
12
11
10
9
8
7
6
5
4
3
2
1
G1
C (AV3)
GND (AV3)
V/Y (AV3)
GND (AV3)
S1 (AV3)
R (AV3)
GND (AV3)
L (AV3)
GND HP
R HP
L HP
B LED
TO
A, H-BOARD
(A7, H3)

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
G,K and KA-Board Schematic Diagram


K-BOARD TNPA2940
TO P-BOARD (P2)
K1
ESB92S11B S840
SWITCH
R1043 6.8k
R1044 12k
R1045 22k
R1046 68k
S1003 EVQ23405R TV/AV
S1004 EVQ23405R +
S1005 EVQ23405R −
S1006 EVQ23405R FUNCTION
S1007 EVQ23405R STR
RM1001 B3RAD0000012
REMOTE CONTROL CENSOR
C1054 100p
R1083 100
R1042 JW
C1043 100p
R1084 100
C1041 50V 47
C1040 0.022
TO A-BOARD (A6)
K2
LED
KEY SCAN
GND3
RMCN
STBY 5V
C1051 16V 100
L1052 EXCELSA35 J0JYA0000010
R1085 220
R1081 3.3k
Q1003 2SC3311A0A B1AACF000052
R1082 10k
D1011 LNG201RFC
LED
D1014 MAZ40680MF
D1010 MAZ40680MF
AV3 IN
KA-BOARD TNPA2941
G3
KA1
B LED
GND
D1016 MAZ40680MF
R1060 560
D1015 B3AEA0000033
BLUE LIGHT

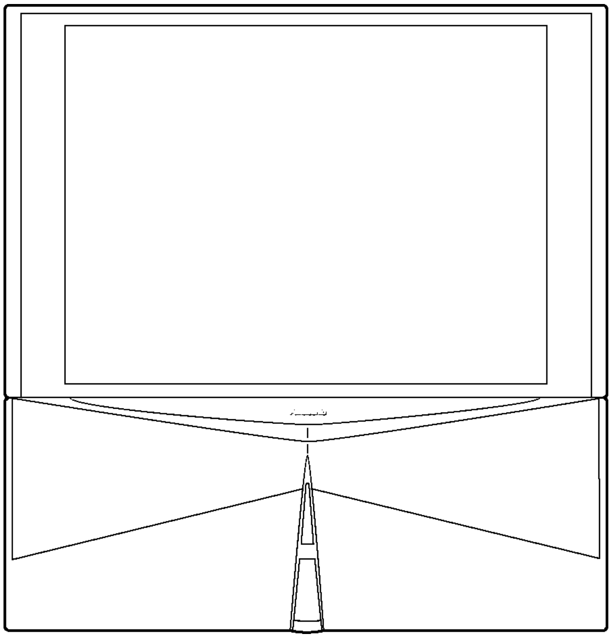
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
G,K and KA-Board Schematic Diagram

5 6 7

ORDER NO. ITD0308032C3

Service Manual

Projection Television



TX-51P800X
TX-51P800HM
TX-51P800HQ
TX-43P800X
TX-43P800HM
TX-43P800HQ
TX-43P800HZ

GP1VP

Specifications

	TX-43P800H / TX-51P800H	**TX-43P800X / TX-51P800X**
Power Source	AC 220 - 240 V, 50 / 60 Hz	AC 110 - 240 V, 50 / 60 Hz
Power Consumption	Stand-by condition 0.5 W	Stand-by condition 0.5 W
	Normal viewing 175 W	Normal viewing 175 W
	TX-43P800H / X	**TX-51P800H / X**
Dimensions (W × H × D)	1095 mm × 1267.5 mm × 547 mm	1298 mm × 1394 mm × 547 mm
Mass (Weight)	60 kg (Net)	66 kg (Net)
Remote control Transmitter	EUR511254	
	R6 (AA) Battery × 2	

Panasonic

© 2003 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

Receiving System

21 Systems		Function
1	PAL B, G, H	Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders.
2	PAL I	
3	PAL D, K	
4	SECAM B, G	
5	SECAM D, K	
6	SECAM K1	
7	NTSC M (NTSC 3.58/4.5 MHz)	

21 Systems		Function
15	PAL 60 Hz/5.5 MHz	Playback from Special Disc Players and Special VCR's
16	PAL 60 Hz/6.0 MHz	
17	PAL 60 Hz/6.5 MHz	
18	SECAM 60 Hz/5.5 MHz	
19	SECAM 60 Hz/6.0 MHz	
20	SECAM 60 Hz/6.5MHz	
21	NTSC 50 Hz/ 4.5 MHz	

21 Systems		Function
8	NTSC 4.43/5.5 MHz	Playback from Special VCR's
9	NTSC 4.43/6.0 MHz	
10	NTSC 4.43/6.5 MHz	
11	NTSC 3.58/5.5 MHz	
12	NTSC 3.58/6.0 MHz	
13	NTSC 3.58/6.5 MHz	
14	SECAM I	

Receiving Channels	Regular TV	
	VHF BAND	
	2-12 (PAL/SECAM B, K1)	
	0-12 (PAL B AUST.)	
	1-9 (PAL B N.Z)	
	1-12 (PAL/SECAM D)	
	1-12 (NTSC M Japan)	
	2-13 (NTSC M U.S.A)	
	UHF BAND	
	21-69 (PAL G, H, I/SECAM G, K, K1)	
	28-69 (PAL AUST.)	
	13-57 (PAL D, K)	
	13-62 (NTSC M Japan)	
	14-69 (NTSC M U.S.A)	
	CATV	
	S1-S20 (OSCAR)	
	1-125 (U.S.A CATV)	
	C13-C49 (JAPAN)	
	S21-S41 (HYPER)	
	Z1-Z37 (CHINA)	
	5A, 9A (AUST.)	
Receiving Stereo System	NICAM I, NICAM B/G, NICAM D, A2 (German)	
Tuning System	Frequency synthesizer	Auto Search Tuning
		POSITION: 100 Position
		DIRECT: 125 Position
Audio Output	40 W [20 W + 20 W] (10 % THD)	
Speaker System	Woofer (13 cm) × 2 + Squawker (12 cm × 6 cm) × 2.....TX-43P800H/X	
	Woofer (13 cm) × 2 + Squawker (12 cm × 6 cm) × 2 + Tweeter (5 cm) × 2.....TX-51P800H/X	
Headphones	3.5 mm Plug × 1	
Aerial Impedance	75 Ω Unbalanced coaxial	
Video / Audio / Component Terminals		
AV 1, 2, 3, 4,	S Video In	Y: 1 V p-p, 75 Ω
		C: 0.3 V p-p, 75 Ω
	DVD (Y/ P_B/ P_R)	
	Video In	1 V p-p, 75 Ω
	Audio In	Approx. 0.5 V 47 KΩ
Monitor Out	Video Out	1 V p-p, 75 Ω
	Audio Out	Approx. 0.5 V, 1 KΩ

AV1 IN (Rear): S Video, Video, Audio L/R terminals

AV2 IN (Rear): Video or Y/ P_B/ P_R, Audio L/R terminals

AV3 IN (Front): S Video, Video, Audio L/R terminals

AV4 IN (Rear): Video or Y/ P_B/ P_R, Audio L/R terminals

Applicable signal to AV2, AV4 Y/ P_B/ P_R input terminals: 480i (525i), 576i (625i), 480P (525P) and 576P (625P)

Notes: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

Page

1 Safety Precautions ---------- 5
- 1.1. General Guide Lines ---------- 5
- 1.2. Leakage Current Cold Check ---------- 5
- 1.3. Leakage Current Hot Check (See Fig. 1) ---------- 5
- 1.4. X-Radiation ---------- 5

2 Chassis Board Layout ---------- 6

3 Disassembly for Service ---------- 7
- 3.1. Disassembly Flowchart ---------- 7
- 3.2. Cabinet Side (L, R) ---------- 8
- 3.3. Speaker Grille ---------- 8
- 3.4. Speaker Ass´y ---------- 8
- 3.5. Cabinet (Upper) ---------- 9
- 3.6. Screen ---------- 9
- 3.7. Mirror ---------- 9
- 3.8. Rear Cover (Upper) ---------- 9
- 3.9. Rear Cover (Bottom) ---------- 10
- 3.10. Disassembly For CRT Removal ---------- 10

4 Service Hints ---------- 12
- 4.1. Service position for Main chassis ---------- 12
- 4.2. Service Position for DG-Board ---------- 12
- 4.3. Service Position for K-Board ---------- 12
- 4.4. Service Position for KA-Board ---------- 12
- 4.5. Service Position for G-Board ---------- 13

5 Self Check ---------- 14

6 Service Mode Function ---------- 15
- 6.1. How to enter SERVICE 1 ---------- 15
- 6.2. How to enter SERVICE 2 ---------- 15
- 6.3. Option Descrition ---------- 17

7 CRT Set Up ---------- 20
- 7.1. Dynamic Focus Adjustment ---------- 20
- 7.2. Electrical Focus Adjustment ---------- 20
- 7.3. Optical Lens Focus Adjustment ---------- 20
- 7.4. Centering Magnet Adjustment ---------- 21
- 7.5. Alignment magnet Adjustment ---------- 22

8 Deflection Adjustment ---------- 23
- 8.1. PAL 100Hz mode (100i) ---------- 23
- 8.2. PAL 100Hz V Comp mode (100i) ---------- 24
- 8.3. PAL Progressive mode (50p) ---------- 25

Page

- 8.4. NTSC Progressive mode (60p) ---------- 25
- 8.5. 525p Deflection Adjustment / Confirmation ---------- 26
- 8.6. 625p Deflection Adjustment / Confirmation ---------- 26

9 Adjustment Procedure ---------- 27
- 9.1. Cut off Adjustment ---------- 27
- 9.2. Sub Contrast / G-Limit Adjustment ---------- 28
- 9.3. Sub Picture Contrast Adjustment ---------- 28
- 9.4. NTSC Tint Adjustment ---------- 29
- 9.5. Sub Color Adjustment ---------- 29
- 9.6. Blue Focus / Gamma Adjustment ---------- 30
- 9.7. White Balance Adjustment ---------- 30
- 9.8. Sub Bright Adjustment ---------- 31
- 9.9. Blue Limit Adjustment ---------- 31

10 Convergence Adjustment ---------- 32
- 10.1. Convergence Adjustment Sheet ---------- 32
- 10.2. Convergence Adjustment Procedure ---------- 33
- 10.3. Coarse Convergence Adjustment mode ---------- 34
- 10.4. Fine Convergence Adjustment ---------- 40

11 Location of Lead Wiring ---------- 44
- 11.1. Location of Lead Wiring (1) ---------- 44
- 11.2. Location of Lead Wiring (2) ---------- 44
- 11.3. Location of Lead Wiring (3) ---------- 45
- 11.4. Location of Lead Wiring (4) ---------- 47
- 11.5. Location of Lead Wiring (5) ---------- 49
- 11.6. Location of Lead Wiring (6) ---------- 49
- 11.7. Location of Lead Wiring (7) ---------- 50
- 11.8. Location of Lead Wiring (8) ---------- 50

12 Conductor Views ---------- 51
- 12.1. A-Board ---------- 51
- 12.2. D-Board ---------- 53
- 12.3. DC-Board ---------- 56
- 12.4. DG-Board ---------- 57
- 12.5. H-Board ---------- 61
- 12.6. LG, LR and LB Board ---------- 63
- 12.7. P-Board ---------- 64
- 12.8. U-Board ---------- 66
- 12.9. G, K and KA-Board ---------- 68

13 Block Diagram ---------- 69

13.1. Audio Block Diagram 69
13.2. Video Block Diagram 70
13.3. Power Block Diagram 72
13.4. Control Block Diagram 75
14 Schematic Diagram 77
14.1. Schematic Diagram Notes 77
14.2. A-Board (1 of 5) Schematic Diagram 78
14.3. A-Board (2 of 5) Schematic Diagram 79
14.4. A-Board (3 of 5) Schematic Diagram 80
14.5. A-Board (4 of 5) Schematic Diagram 81
14.6. A-Board (5 of 5) Schematic Diagram 82
14.7. D-Board (1 of 2) Schematic Diagram 83
14.8. D-Board (2 of 2) Schematic Diagram 84
14.9. DC-Board Schematic Diagram 85
14.10. DG-Board (1 of 6) Schematic Diagram 86
14.11. DG-Board (2 of 6) Schematic Diagram 87
14.12. DG-Board (3 of 6) Schematic Diagram 88
14.13. DG-Board (4 of 6) Schematic Diagram 89
14.14. DG-Board (5 of 6) Schematic Diagram 90
14.15. DG-Board (6 of 6) Schematic Diagram 91
14.16. H-Board (1 of 2) Schematic Diagram 92
14.17. H-Board (2 of 2) Schematic Diagram 93
14.18. LG-Board Schematic Diagram 94
14.19. LR and LB-Board Schematic Diagram 95
14.20. P-Board Schematic Diagram 96
14.21. U-Board (1 of 2) Schematic Diagram 97
14.22. U-Board (2 of 2) Schematic Diagram 98
14.23. G, K and KA Board Schematic Diagram 99
15 Parts Location 101
16 Packing Exploded View 103
17 Mechanical Replacement Parts List 105
18 Electrical Replacement Parts List 108
18.1. Replacement Parts List Notes 108
18.2. Electrical Replacement Parts List 109

1 Safety Precautions

1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.

   If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as **30.0kV**, is present when this monitor is in operation. Operation of the Projection Monitor without the rear cover involves the danger of a shock hazard from the power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the projection tube to the Projection Monitor chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the Projection Monitor´s power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the projection monitor, such as screw heads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 MΩ and 20 MΩ.

   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.3. Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ, 10W resistor, in series with an exposed metallic part on the projection monitor and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the projection monitor should be repaired and rechecked before it is returned to the customer.

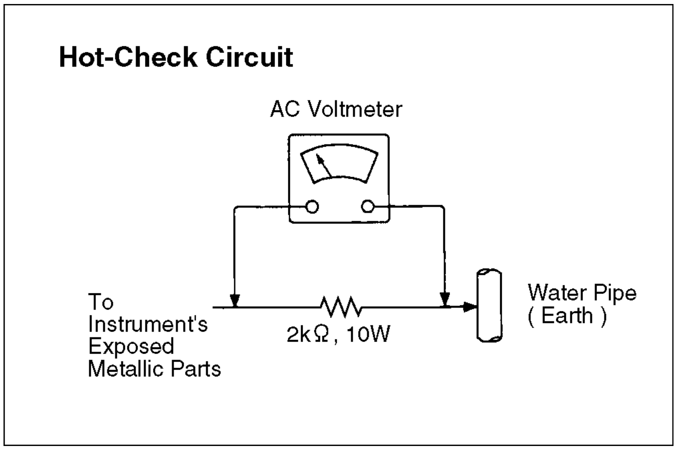


Fig. 1

1.4. X-Radiation

Warning :

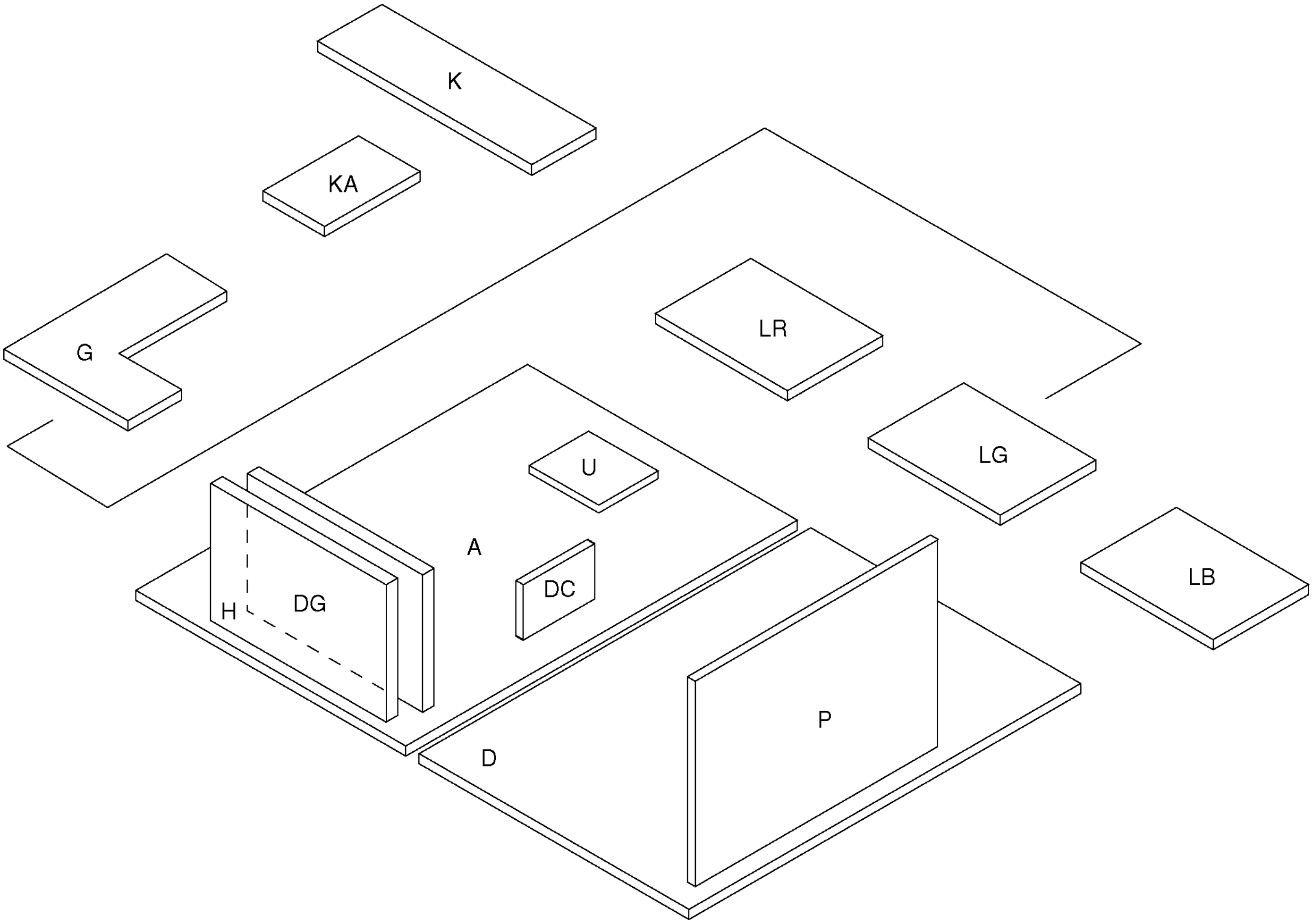
1. The potential sources of X-Radiation in projection monitor are the High Voltage section and the projection tube.
2. When using a projection tube test jig for service, ensure that jig is capable of handling **30.0kV** without causing X-Radiation.

Note:

It is important use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Set the service switch to the service position.
3. Measure the High Voltage. The meter reading should indicate **30.0 ± 1.0 kV**. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent an X-Radiation possibility, it is essential to use the specified projection tube.

2 Chassis Board Layout

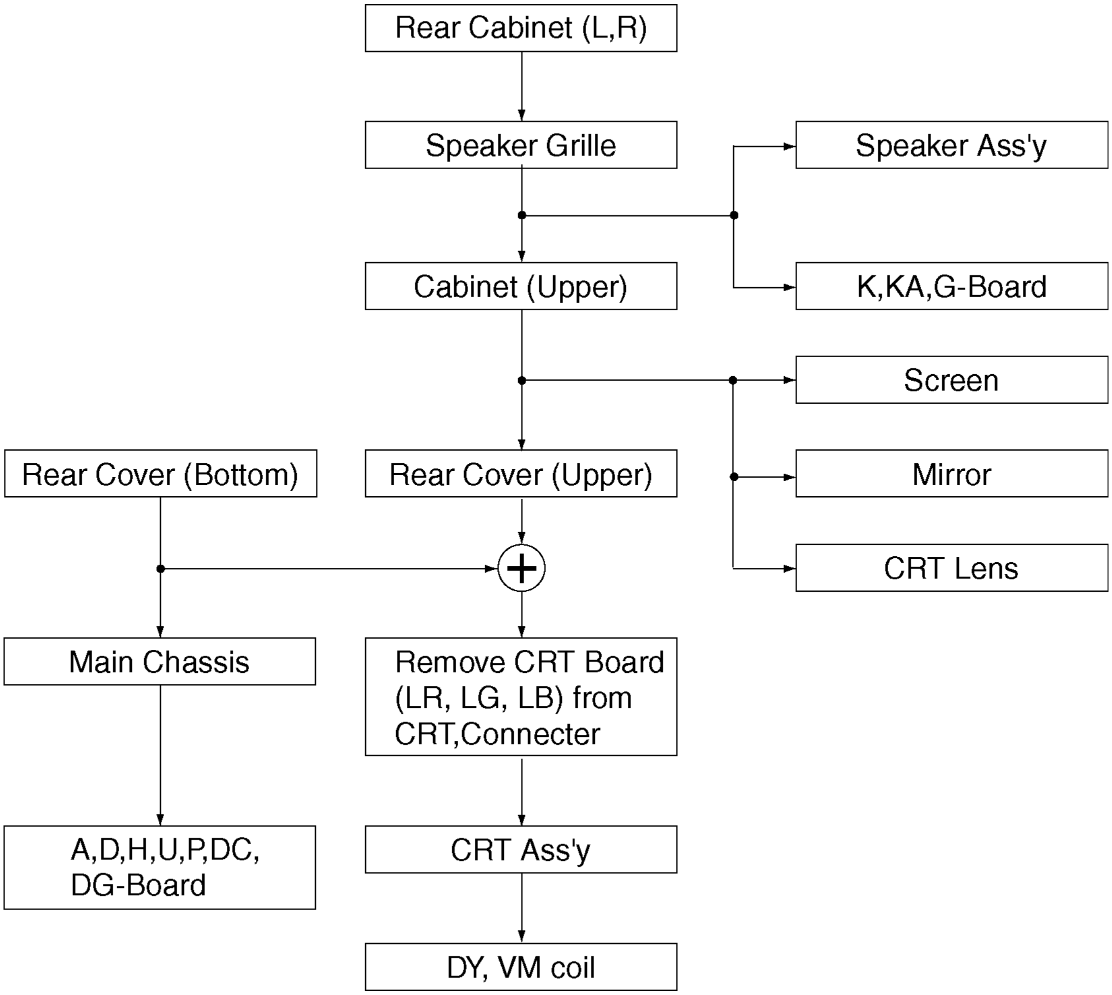


Board-Name	Function
A-Board	Main Signal, Digital Converter
P-Board	Line Filter
D-Board	Deflection, High Voltage
LR-Board	CRT Drive (R)
LG-Board	CRT Drive (G)
LB-Board	CRT Drive (B)
H-Board	Rear terminal
U-Board	MPU
DG-Board	Digital Core
DC-Board	Convergence
G-Board	Front Terninal
K-Board	Power Switch
KA-Board	Blue light

3 Disassembly for Service

This flowchart indicates disassembly items of the cabinet parts and circuit boards in order to find the items necessary for servicing, when reassembling, perform the procedures in the reverse order.

3.1. Disassembly Flowchart

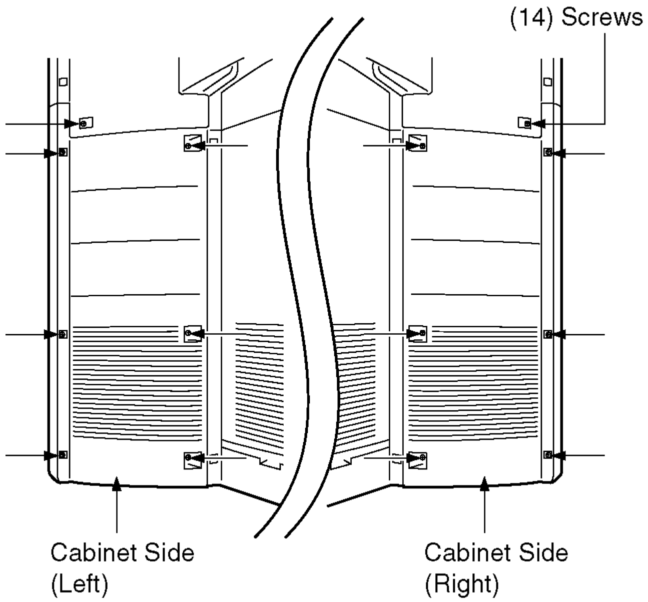

Rear Cabinet (L,R)
Speaker Grille
Speaker Ass'y
K,KA,G-Board
Cabinet (Upper)
Screen
Rear Cover (Bottom)
Rear Cover (Upper)
Mirror
CRT Lens
Main Chassis
Remove CRT Board (LR, LG, LB) from CRT,Connecter
A,D,H,U,P,DC, DG-Board
CRT Ass'y
DY, VM coil

Note:

Board ground wires may have to be disconnected to disassemble some boards. All ground wires must be reconnected using jumper leads if necessary before power is applied to Receiver for service.

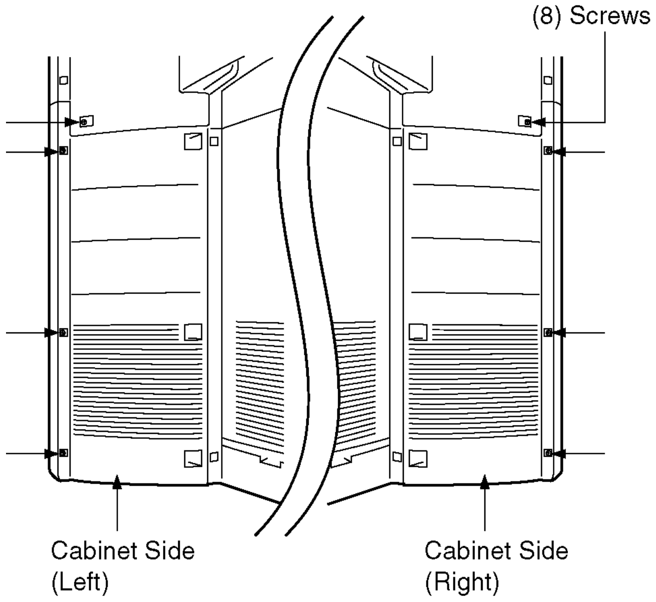
3.2. Cabinet Side (L, R)

1. Remove (14) screws.

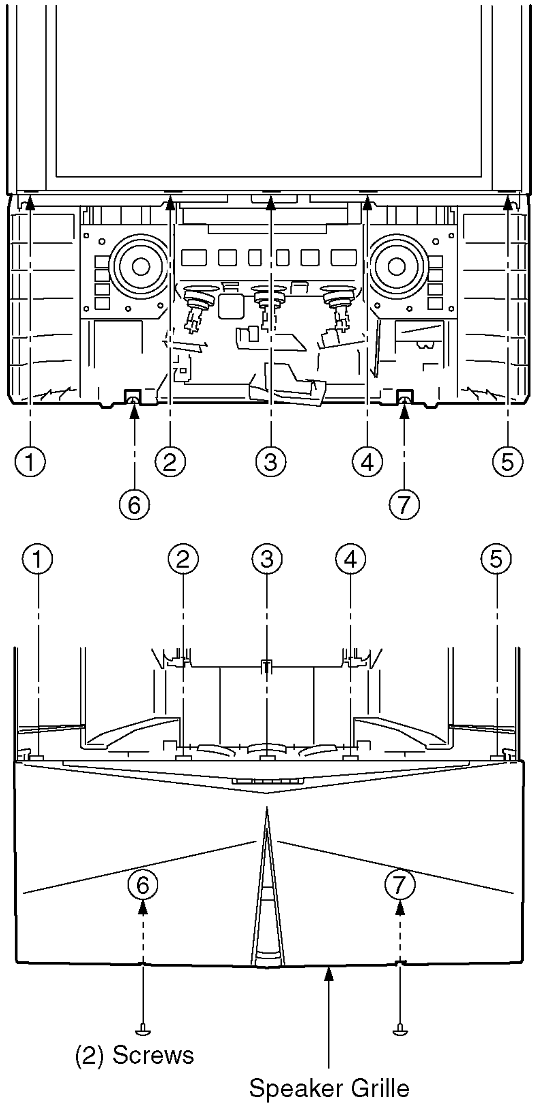

(14) Screws
Cabinet Side
(Left)
Cabinet Side
(Right)

3.3. Speaker Grille

1. Remove (8) screws.

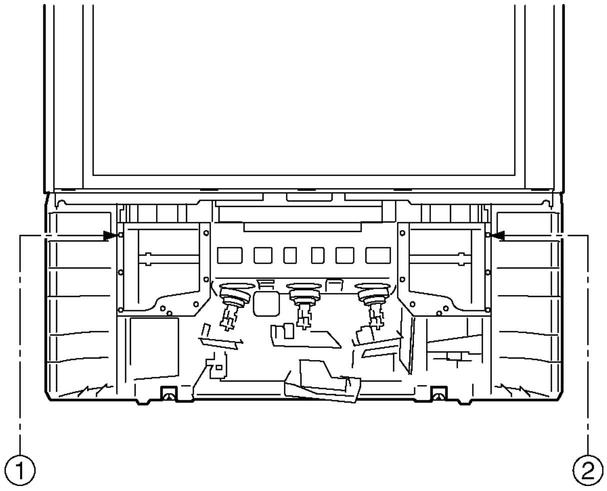

(8) Screws
Cabinet Side
(Left)
Cabinet Side
(Right)

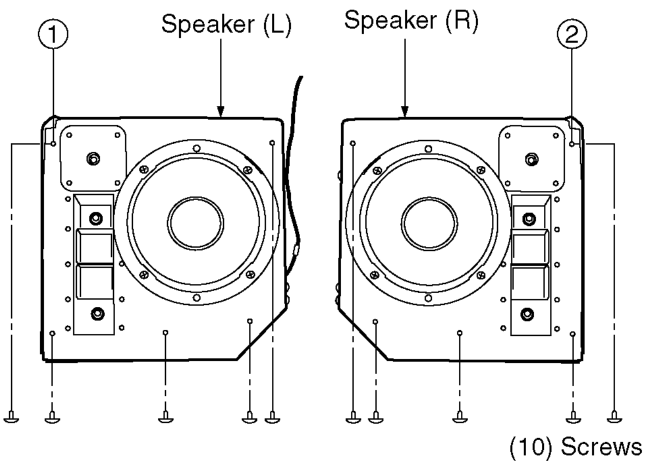
2. Remove (2) screws.


①
②
③
④
⑤
⑥
⑦
①
②
③
④
⑤
⑥
⑦
(2) Screws
Speaker Grille

3.4. Speaker Ass´y

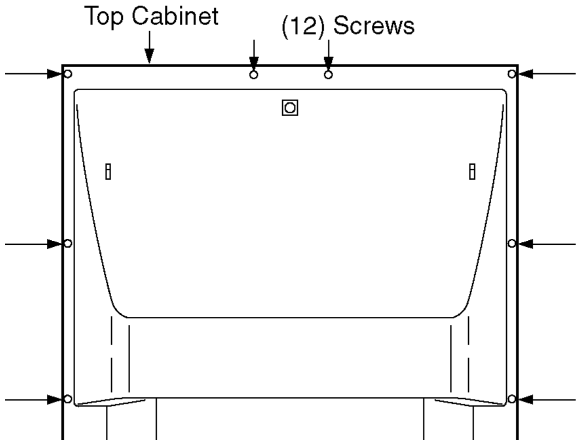
1. Remove (10) screws.

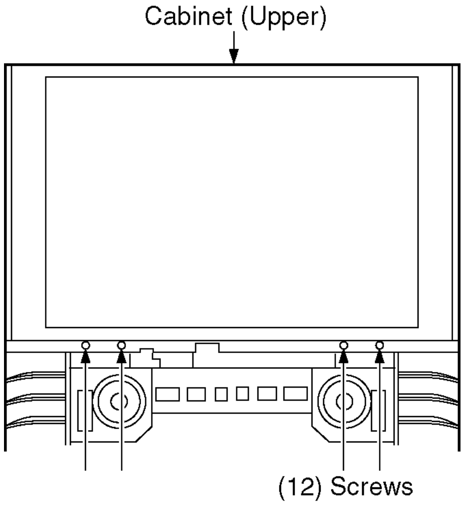



①
Speaker (L)
Speaker (R)
②
(10) Screws

3.5. Cabinet (Upper)

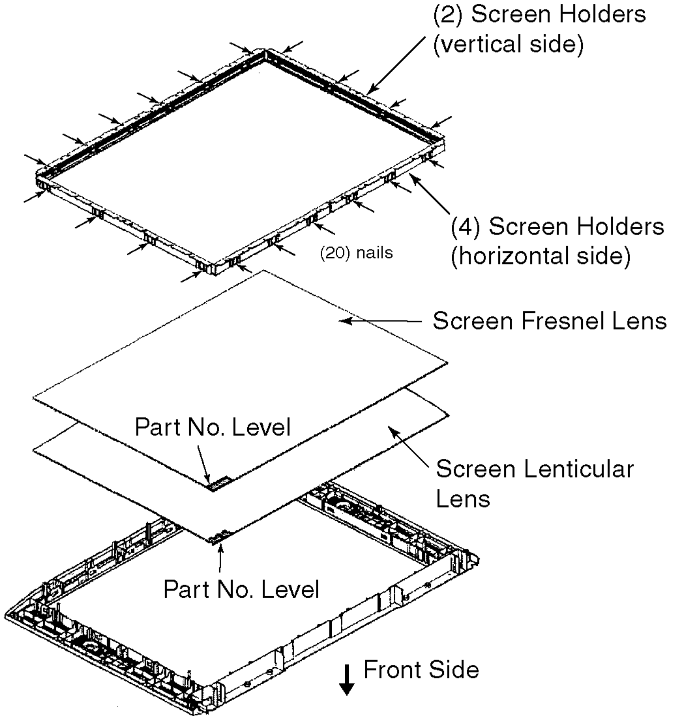
1. Remove (12) Screws.


Top Cabinet
(12) Screws


Cabinet (Upper)
(12) Screws

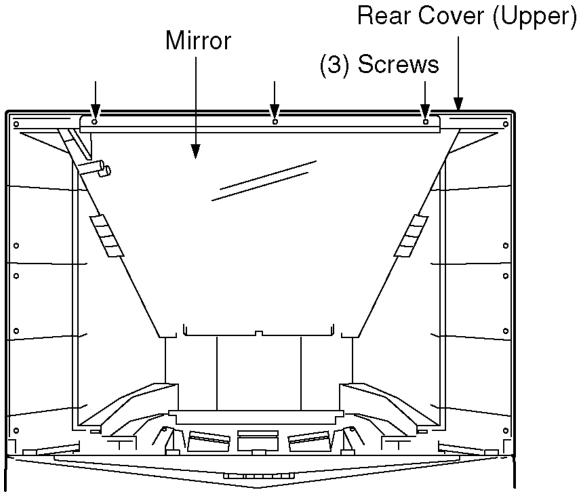
3.6. Screen

1. Remove (20) nails, and remove (2) Screen Holders (vertical side) and (4) Screen Holders (horizontal side).


(2) Screen Holders
(vertical side)
(4) Screen Holders
(horizontal side)
(20) nails
Screen Fresnel Lens
Part No. Level
Screen Lenticular
Lens
Part No. Level
Front Side

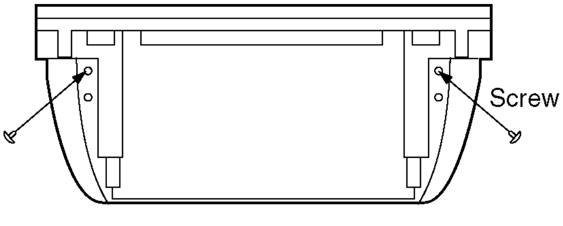
3.7. Mirror

1. Remove (3) screws.


Rear Cover (Upper)
Mirror
(3) Screws

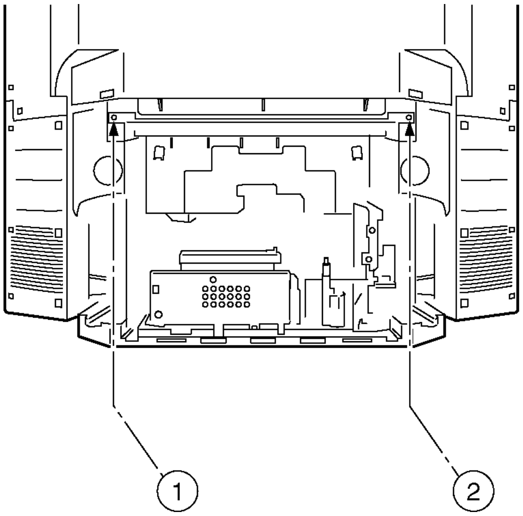
3.8. Rear Cover (Upper)

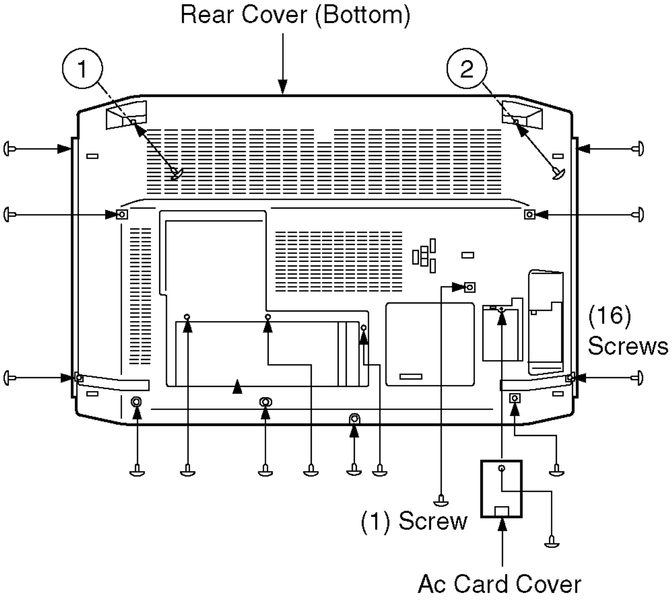
1. Remove the Cabinet (Upper).
2. Remove (2) screws.



3.9. Rear Cover (Bottom)

1. Remove (16) screws.
2. Remove (1) screw.

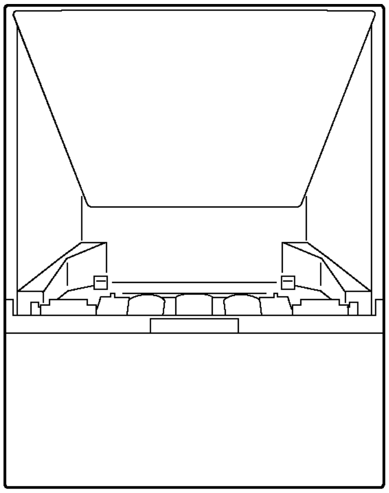



Rear Cover (Bottom)
1
2
(16) Screws
(1) Screw
Ac Card Cover

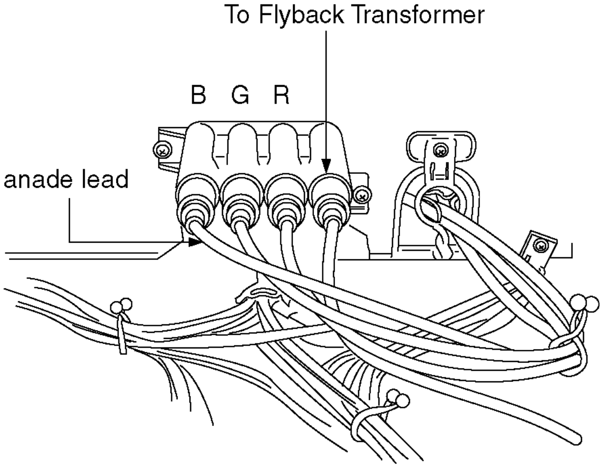
3.10. Disassembly For CRT Removal

To facilitate CRT replacement, the complete CRT mounting chassis does not need to be removed.

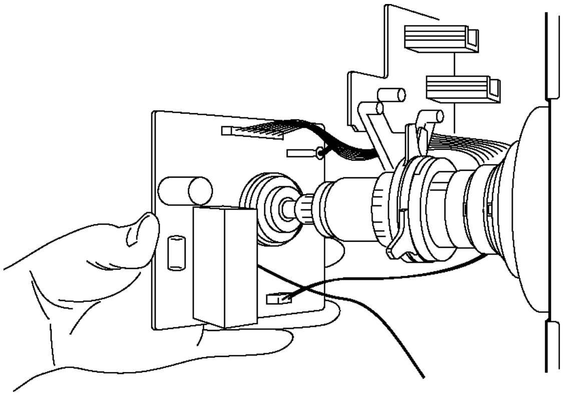
1. Remove the Screen Frame Ass´y, Decorative Panel and the Bottom Rear Cover Ass´y. (See Disassemble for Service).



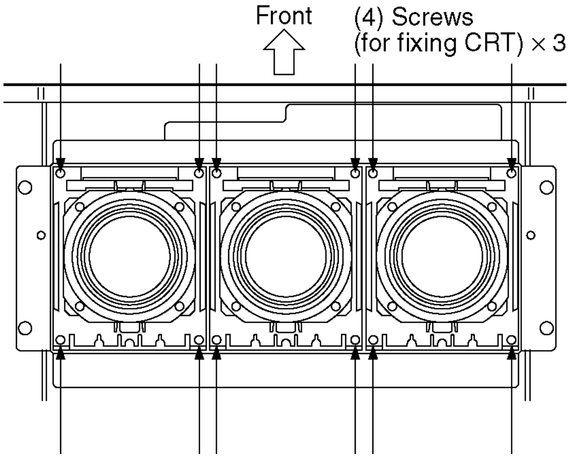
2. Unplug the defective CRT Dag (GND), from the CRT Board, LBGND for LB, LGGND for LG, LRGND for LR.
3. Remove lead wires (DY, VM coil) and anode lead wire from holders as necessary.


To Flyback Transformer
B G R
anade lead

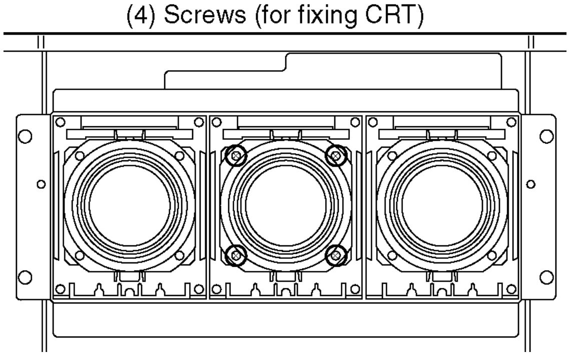
4. Remove the CRT Board from the defective CRT neck.



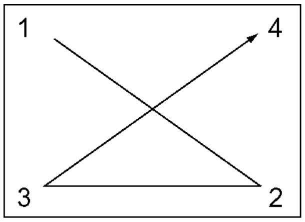
5. Note position of yoke with centering tabs and remove from defective CRT.
6. From the Top, remove (2) screws from the defective CRT.



7. Release CRT anode lead from CRT chassis wire clamp and all other wires from holders.
8. Wire the anode lead wire.
9. Lift out CRT assembly with lens assembly and other CRT neck assemblies.
10. Lay CRT face down on a soft cloth.
11. Remove CRT lens by removing (4) screws.



12. Install yoke and VM coil with other CRT neck assemblies on CRT neck in the same order and position as removed from the defective CRT.
13. Push yoke against bell of CRT and tighten the clamp just snug enough so it will not easily shift.
14. Assemble CRT focus lens assembly to new CRT with (4) screws. Make sure focus lens adjustment nut is in the same location as on other CRT focus lens.



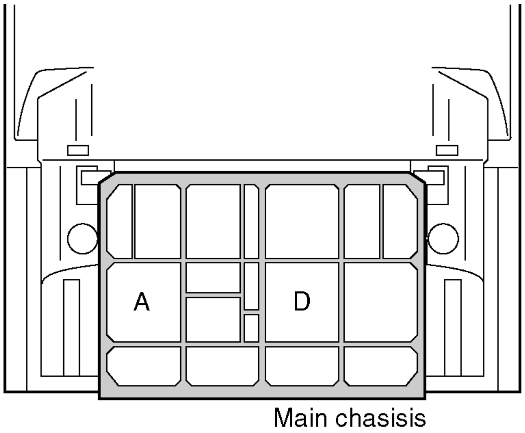
Note:

Please assemble with screws in the order shown in detail and tighten with same torque.

4 Service Hints

4.1. Service position for Main chassis

1. Remove the Rear Cover (Bottom) by removing (16) screws and (1) screws around its perimeter.
2. Remove lead wires and bundles from holders as necessary.
3. Pull out main chassis and stand it.

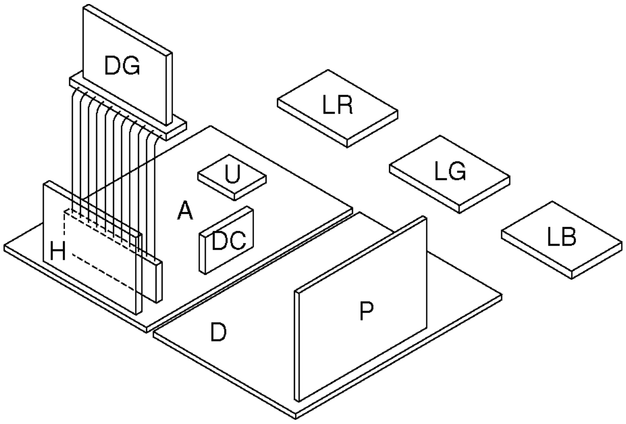

A
D
Main chasisis

4.2. Service Position for DG-Board

1. Remove the each circuit board from A or D-Board.
2. Connect extension cables between individual circuit board and A or D-Board.

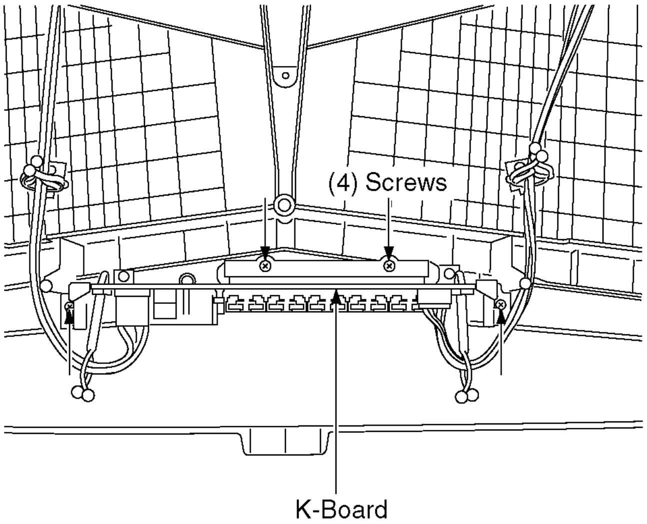
Note:

Extension cable kit is supplied as service fixtures and tools. (Part No. TZSC0724)


DG
LR
U
LG
A
DC
LB
H
P
D

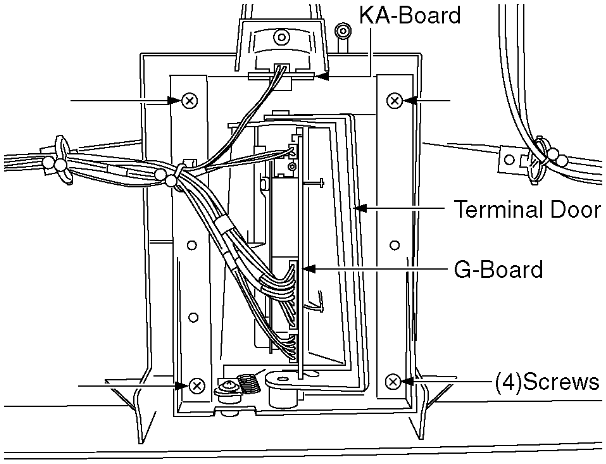
4.3. Service Position for K-Board

1. Remove the Speaker Grille.
2. Remove the K-Board by (4) screws.

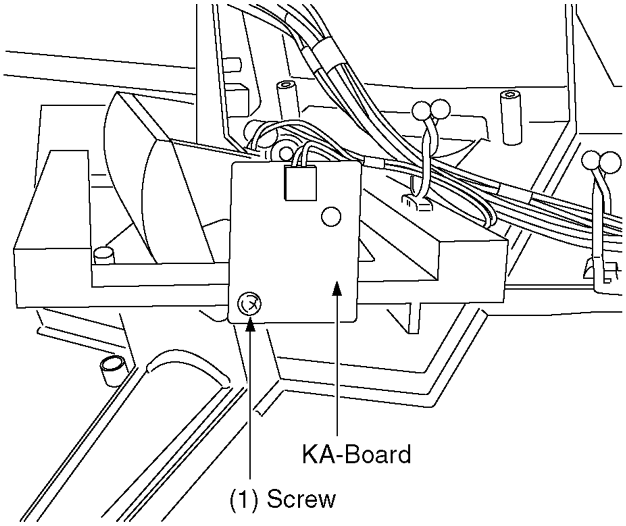

(4) Screws
K-Board

4.4. Service Position for KA-Board

1. Remove the Speaker Grille.
2. Remove the Terminal Door by (4) screws.

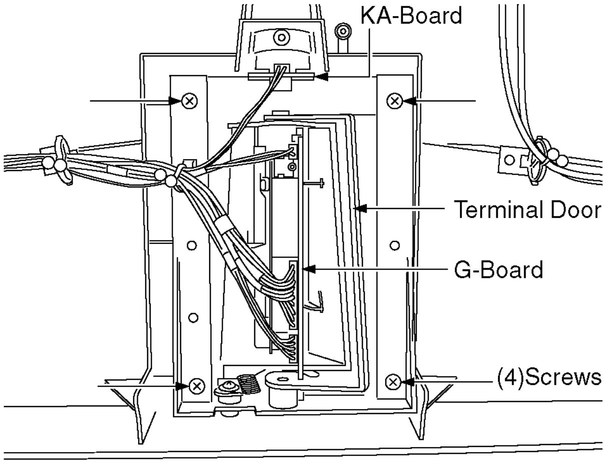

KA-Board
Terminal Door
G-Board
(4)Screws

3. Remove the KA-Board by (1) screws.

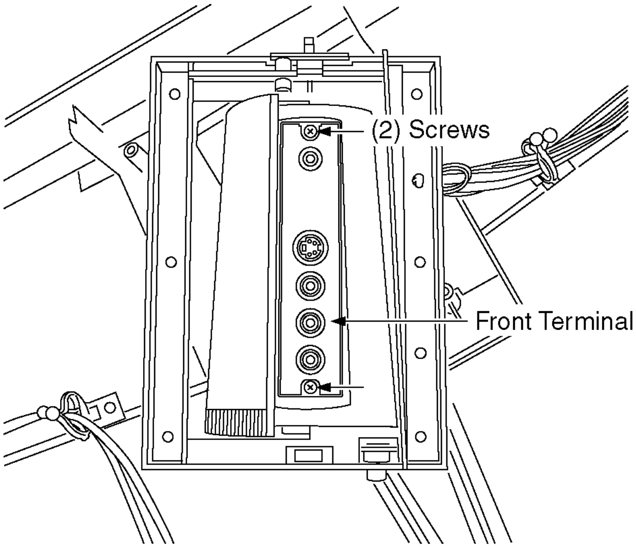

KA-Board
(1) Screw

4.5. Service Position for G-Board

1. Remove the Speaker Grille.
2. Remove the Terminal Door by (4) screws.

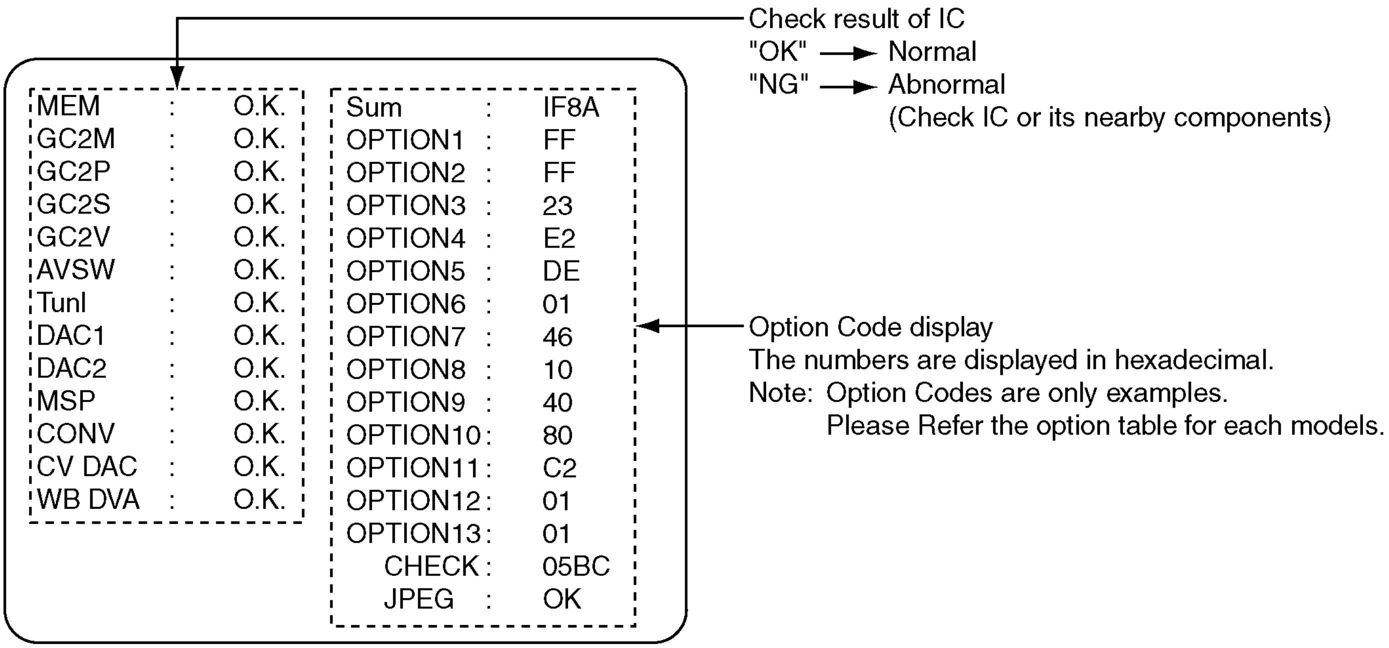

KA-Board
Terminal Door
G-Board
(4)Screws

3. Remove the G-Board by (2) screws.


(2) Screws
Front Terminal

5 Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self -Check mode press the down (–/V) button on the customer controls at the front of the set, at the same time pressing the HELP button on the remote control, and the screen will show :



```
MEM     :   O.K.      Sum       :   IF8A
GC2M    :   O.K.      OPTION1   :   FF
GC2P    :   O.K.      OPTION2   :   FF
GC2S    :   O.K.      OPTION3   :   23
GC2V    :   O.K.      OPTION4   :   E2
AVSW    :   O.K.      OPTION5   :   DE
Tunl    :   O.K.      OPTION6   :   01
DAC1    :   O.K.      OPTION7   :   46
DAC2    :   O.K.      OPTION8   :   10
MSP     :   O.K.      OPTION9   :   40
CONV    :   O.K.      OPTION10  :   80
CV DAC  :   O.K.      OPTION11  :   C2
WB DVA  :   O.K.      OPTION12  :   01
                      OPTION13  :   01
                         CHECK  :   05BC
                         JPEG   :   OK
```

Check result of IC
"OK" → Normal
"NG" → Abnormal
(Check IC or its nearby components)

Option Code display
The numbers are displayed in hexadecimal.
Note: Option Codes are only examples.
Please Refer the option table for each models.

If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

Display	Ref. No.	Description	P.C.B.
MEMORY	IC1104	Memory	U-Board
GC2M	IC1301	Grobal Core MAIN	DG-Board
GC2P	IC1304	Grobal Core SUB1	DG-Board
GC2S	IC1302	Grobal Core SUB2	DG-Board
GC2V	IC1350	Grobal Core	DG-Board
AVSW	IC3003	AV Switch	H-Board
Tun1	TNR001	Tuner	A-Board
DAC1	IC1004	DAC control1	A-Board
DAC2	IC7110	DAC control2	DC-Board
MSP	IC2002	Stereo Decoder	A-Board
CONV	IC7107	Convergence	DC-Board
CV DAC	IC7301	Conv. DAC	A-Board
WB DAC	IC7702	WB DAC control	A-Board

6 Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

6.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX, and set TREBLE to MINIMUM.
2. Simultaneously press INDEX button on remote control and VOLUME DOWN button [-] on the TV set.

6.2. How to enter SERVICE 2

1. Set the channel to CH99.
2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.

SERVICE 1

Function	Average Data
H-Pos	438
V-Pos	132
H-Amp	28
V-Amp	119
Parabola	68
Trapezoid	131
H-Parallel	8
V-Linear	134
Top-Corner	180
Bottom-Corner	180
V-S-Correct	55
C-Correct	7
IVBL C	160
G-LIMIT	255
B-LIMIT	255
WB-B-G-ST1	255
R High(Drive)	0128
G High(Drive)	0128
B High(Drive)	0128
R Low(Cut off)	0690
G Low(Cut off)	0640
B Low(Cut off)	0640
Sub-Bright	168
Sub-Contrast	154
Sub-Colour	26
Sub-NTSC Tint	-4
SECAM B-Y	192
SECAM R-Y	70
Sub-NTSC Tint2	129
Sub SECAM B-Y	192
Sub SECAM R-Y	70
Video Gain 2	20
SDRAM-F	-1
DAF-H-PARA	312
DAF V-SAW	9
DAF V-PARA	28
Coarse Convergence	Access
Fine Convergence	Access

- Press the RED/GREEN button to step up/down thrpugh the functions.
- Press the YELLOW/BLUE button to change the function values.
- Press the STR button after each adjustment has been mode to store the required values.

CH99
+
HOLD button

CH99
+
INDEX button

SERVICE 2

Function		Function	
Y/C Delay	04	OPTION 8	10
OPTION 1	FF	OPTION 9	40
OPTION 2	FF	OPTION 10	80
OPTION 3	23	OPTION 11	C2
OPTION 4	E2	OPTION 12	01
OPTION 5	DE	OPTION 13	01
OPTION 6	01	Hours	00005
OPTION 7	46		

6.3. Option Descrition

Options		HQ	HM	X		**ASIA**
option1		6F	6F	6F		
0E0	b0	1	1	1	Colour system	Auto (1)
	b1	1	1	1		SECAM (1)
	b2	1	1	1		NTSC (1)
	b3	1	1	1		M.NTSC (1)
	b4	0	0	0	JPEG (1)	enable (1)
	b5	1	1	1	BBE (1)	enable (1)
	b6	1	1	1	BLUE LED (1)	enable (1)
	b7	0	0	0	YUV-SW (1)	enable (1)
option2		FF	FF	FF		
0E1	b0	1	1	1	CH Plan	ASIA / M.E. / HK / UK / CHINA (1)
	b1	1	1	1		NZ/INDNES (1)
	b2	1	1	1		AUSTRALIA (1)
	b3	1	1	1		E.EUROPE (1)
	b4	1	1	1		SPECIAL (1)
	b5	1	1	1		AMERICA (1)
	b6	1	1	1		CATV (1)
	b7	1	1	1		JAPAN (1)
option3		21	21	21		
0E2	b0	1	1	1	sub picture	without sub-picture (0), with sub-picture (1)
	b1	0	0	0	2tuner	2tuner (1), 1tuner (0)
	b2	0	0	0	VGA	enable (1)
	b3	0	0	0	AV5	enable (1)
	b4	0	0	0	Wide (16:9)	16:9 (1), 4:3 (0) (change multi window / aspect operation)
	b5	1	1	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	0	0	SIF	4.5 / 5.5 / 6.0 / 6.5 (0), 5.5 / 6.0 / 6.5 (1)
	b7	0	0	0		5.5 / 6.5 (2), 6.0 / 6.5 (3)
option4		E2	E2	E2		
0E3	b0	0	0	0	A2 enable	4.5 (1)
	b1	1	1	1		5.5 (1)
	b2	0	0	0		6.0 (1)
	b3	0	0	0		6.5 (1)
	b4	0	0	0	NICAM enable	4.5 (1)
	b5	1	1	1		5.5 (1)
	b6	1	1	1		6.0 (1)
	b7	1	1	1		6.5 (1)
option5		DE	DE	DE		
0E4	b0	0	0	0	A2 select 6.5MHz	5.742MHz (0) 6.742MHz (1)
	b1	1	1	1	NICAM priority	ASIA / M.E. (1)
	b2	1	1	1		HK / UK (1)
	b3	1	1	1		CHINA (1)
	b4	1	1	1		NZ / INDN (1)
	b5	0	0	0		AUSTRA (1)
	b6	1	1	1		E.EURO (1)
	b7	1	1	1		SPECIAL (1)

Options		HQ	HM	X		**ASIA**
option6		00	00	02		
0E5	b0	0	0	0	Ext. HV input	Without HV input (0) / with HV input (1)
	b1	0	0	1	SASO enable	SASO enable (1)
	b2	0	0	0	Noise mute	Noise mute enable (0)
	b3	0	0	0	Monitor out AV1 mute	Monitor out AV1 mute (1)
	b4	0	0	0	Tuner no refresh	Refresh tuner (0), no refresh (1)
	b5	0	0	0	Tuner	MACO tune r(0), ALPS tuner (1)
	b6	0	0	0	free	
	b7	0	0	0		No motion cotrol in film mode (1)
option7		C6	C6	C6		
0E6	b0	0	0	0	Power up EC-Mode	Power on EC enable (1)
	b1	1	1	1	CH Blanking	Blanking enable (1)
	b2	1	1	1	AV Blanking	Blanking enable (1)
	b3	0	0	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	0	0	0	Volume correction	TV Volume correction enable (1)
	b5	0	0	0	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	1	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	1	1	Owner ID	enable (1)
option8		D0	50	50		
0E7	b0	0	0	0	Teletext CH Refrech	enable (1)
	b1	0	0	0	Geomagnetic Sensor	Geomagnetic sensor enable (1)
	b2	0	0	0	Geomagnetic Polarity	Geomagnetic polarity +(0), -(1)
	b3	0	0	0	Rf Attenuater menu	Enable (1)
	b4	1	1	1	Fine tuning	Enable (1)
	b5	0	0	0	Search speed	Slow (1) Fast (0)
	b6	1	1	1	TEXT FLOF	Reserved
	b7	1	0	0	TEXT TOP	TOP enable (1)
option9		40	40	40		
0E8	b0	0	0	0	Dolby	Dolby enable (1)
	b1	0	0	0	3D Subwoofer	Subwoofer enable(1) Dolby model should be 0.
	b2	0	0	0	Dolby Virtual	Dolby Virtual enable (1)
	b3	0	0	0	Amp	with Amp (0) / without Amp (1)
	b4	0	0	0	Sound Ext. DA	without Sound Ext. DA (0) / with Sound Ext. DA (1)
	b5	0	0	0	Shopping Sound menu	MUSIC (0) / CINEMA (1)
	b6	1	1	1	Volume curve	Volume curve1 (0), curve2 (1)
	b7	0	0	0	L1PSYNC	L1PSYNC enable (1)
option10		80	80	80		
0E9	b0	0	0	0	OSD language	English Chinese Arabia (0), English Russian (1)
	b1	0	0	0	ACI all country	not use
	b2	0	0	0	ACI auto MP	not use
	b3	0	0	0	ACI offset	not use
	b4	0	0	0	Blue Back	
	b5	0	0	0	BC Safety	Reserved
	b6	0	0	0	Protect XPR	Reserved
	b7	1	1	1	Protect 5V detect	Protection input enable (1)

Options Model		HQ	HM	X		**ASIA**
option11		42	42	42		
0EA	b0	0	0	0	Shop mode	enable (1)
	b1	1	1	1	Picture Shift	enable (1)
	b2	0	0	0	Sub Headphone	enable (1)
	b3	0	0	0	User aspect Just	enable (1)
	b4	0	0	0	User aspect 14:9	enable (1)
	b5	0	0	0	NICAM C4 bit	enable (1)
	b6	1	1	1	ID-1	enable (1)
	b7	0	0	0	1080I	enable (1)
option12		03	01	01	Area Option	
0EB	b0	1	1	1	Asia	Asia (1), europe (0)
	b1	1	0	0	Australia	Australia (1)
	b2	0	0	0	Ireland/India	India (1)
	b3	0	0	0	UK	not use
	b4	0	0	0	MELCOA	MELCOA (1)
	b5	0	0	0	28 inch	28 inch (1) when only Large size=0, Wide=1, PTV=0
	b6	0	0	0	LED	enable (1)
	b7	0	0	0	free	
option13		01	01	01	Temporary	
0EC	b0	1	1	1	GC2V ES2	ES2 (1), BS1 (0)
	b1	0	0	0	UK Tuner IF 38.9	38.9 MHz (0), 39.5 MHz (1)
	b2	0	0	0		
	b3	0	0	0		
	b4	0	0	0		
	b5	0	0	0		
	b6	0	0	0		
	b7	0	0	0		

7 CRT Set Up

Caution:

Insure yoke plugs on the A-Board are reconnected before turning the Receiver ON to prevent damage to the horizontal output transistor and/or CRTs.

7.1. Dynamic Focus Adjustment

1. Focus adjustments should be performed after 1 hour of aging.
2. Use oscilloscope with 100 : 1 probe.
3. Apply PAL monoscope pattern.
4. Set scan mode to 100Hz.
5. Set the picture menu to Dynamic.
6. Adjust the Red, Blue and Green focus VR on the focus block for best focus of overall picture of each CRT. (Fig. 2)

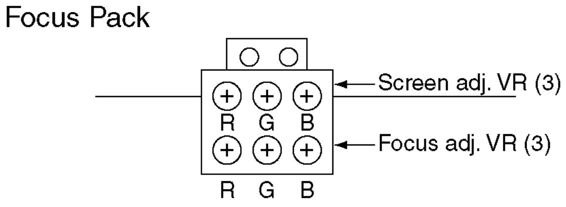


Fig. 2

7. Connect the scope probe to TPD20, GND to TPD21. Scope set at 20V/div & 5m sec./div.
8. Adjust V-PARA (Service mode1) so that waveform (A) is 380V ± 20V. (Fig. 3)
9. Adjust H-PARA (Service mode1) so that waveform (B) is 560V ± 40V. (Fig. 3)

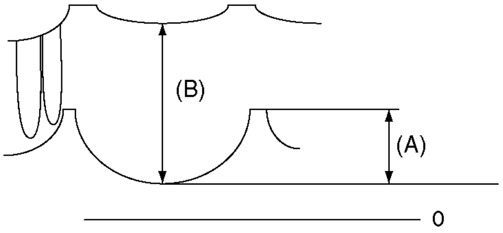


Fig. 3

10. Set scan mode to PAL 100V Comp.
11. Set the picture menu to Dynamic.
12. Adjust V-PARA (Service model) so that waveform (A) is 180V ± 20V. (Fig. 3)
13. Adjust H-PARA (Service model) so that waveform (B) is 560V ± 20V. (Fig. 3)
14. Set scan mode to Progressive.
15. Repeat step 6-9.
16. Apply NTSC monoscope pattern.
17. Set scan mode to Progressive.
18. Repeat step 6-9.
19. Set scan mode to 100Hz.
20. Repeat step 6-9.
21. Proceed with Focus Adjustments.

7.2. Electrical Focus Adjustment

1. Receive a monoscope pattern.
2. Cover the Red and Blue CRT, projecting Green only.

   The electrical focus controls are located on the front. Adjust the Green Focus VR for best focus of overall picture. (Fig. 2)
3. Repeat for Red focus VR while projecting Red only.
4. Repeat for Blue. (Best focus at bottom left corner of screen)

7.3. Optical Lens Focus Adjustment

Note:

This adjustment normally should not require resetting unless the lens has been replaced or adjustment has changed.

1. Optical focus adjustment is located on the top of each CRT lens system. Loosen the adjustment knurls locking knob. (Fig. 4)

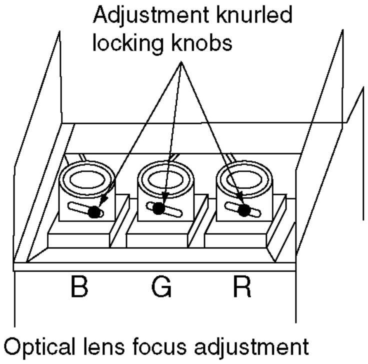

Adjustment knurled locking knobs
B
G
R
Optical lens focus adjustment

Fig. 4 (Rear view)

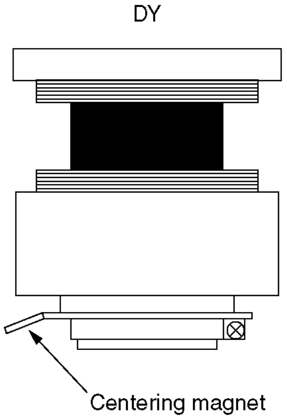
2. Turn the Receiver ON apply and view a monoscope pattern.
3. Adjust each lens focus for best focus while viewing each CRT.
4. Cover the Red and Blue CRT, projecting green only.Rotate the Green lens for best focus around screen center area.
5. Do the same for the Red focus lens while projecting Red only.
6. Repeat for Blue.

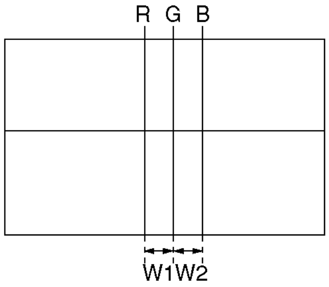
7.4. Centering Magnet Adjustment

1. Receive a monoscope pattern.
2. Set that Fine convergence data (Service mode1) is clear (no correction).
3. Set that V-Pos data (Service mode1) is [130].
4. Set that H-Pos data (Service mode1) is [438].
5. Set that H-Parallel data (Service mode1) is [8].

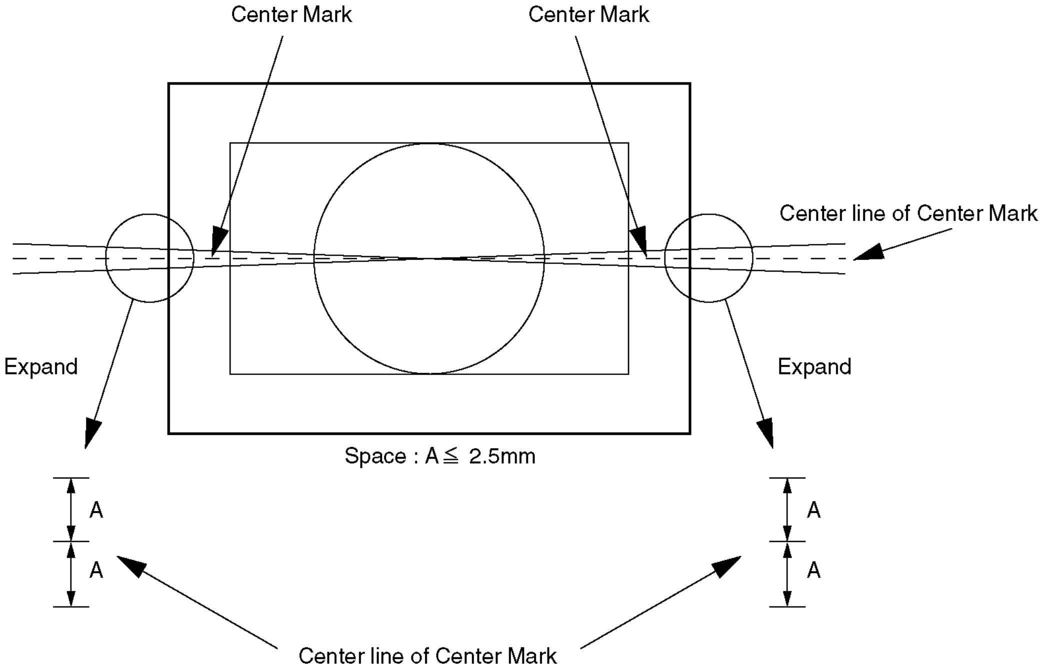
Procedure:

1. Cover the Red, Blue CRT lens, projecting Green only.
2. Adjust green centering magnet (DY) if the projected green horizontal/vertical line does not line up with the screen horizontal/vertical center line.
3. Cover the Green, Red CRT lens, projecting Blue only.
4. Repeat step 2. for blue.
5. Cover the Green, Blue CRT lens, projecting Red only.
6. Repeat step 2. for red.
7. Cover the Red, Blue CRT lens, projecting Green only.
8. Adjust green centering magnets until the center of the monoscope pattern line up with the screen center line.
9. Cover the Green, Red CRT lens, projecting Blue only.
10. Adjust blue centering magnets to position the center of the blue raster W2 away from the center of the green raster.
11. Cover the Green, Blue CRT lens, projecting Red only.
12. Adjust red centering magnets to position the center of the red raster W1 away from the center of the green raster.





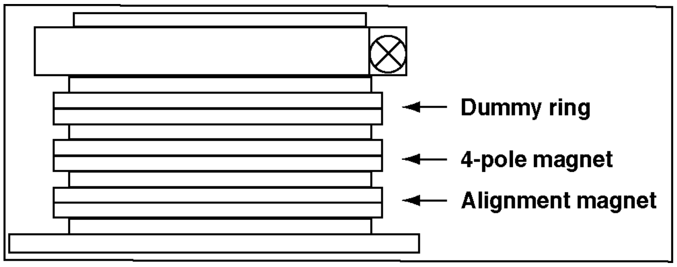
51inch	W1=17.5mm ± 2.5mm W2=40.0mm ± 2.5mm
43inch	W1=17.5mm ± 2.5mm W2=40.0mm ± 2.5mm



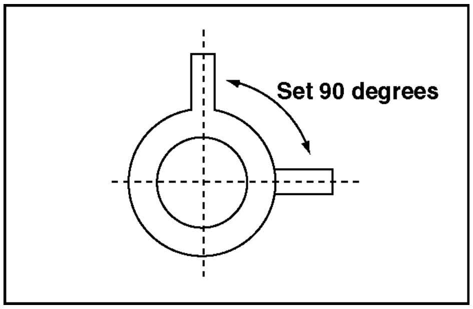
7.5. Alignment magnet Adjustment

Preparation:

1. Receive an cross hatch pattern with dots (pincushion).
2. Loosen the centering magnets screws.
3. Position the longer tab of the four-pole magnet to 90 degrees (uncorrected position).

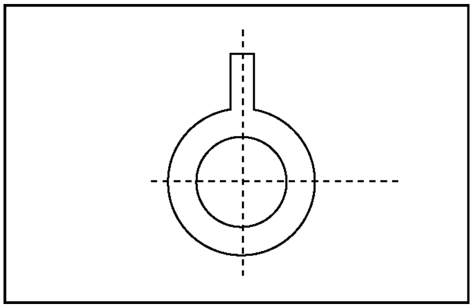


VM Coil with focus correction magnet



4-pole magnet

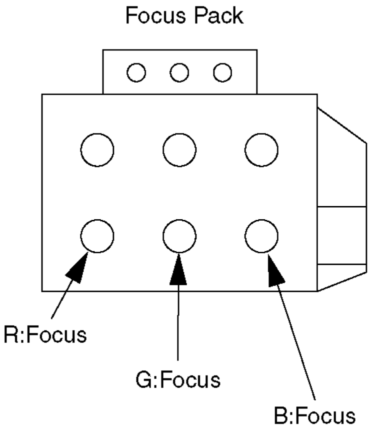
4. Position the long tab of all alignment magnets and of the dummy ring together in an uncorrected position.



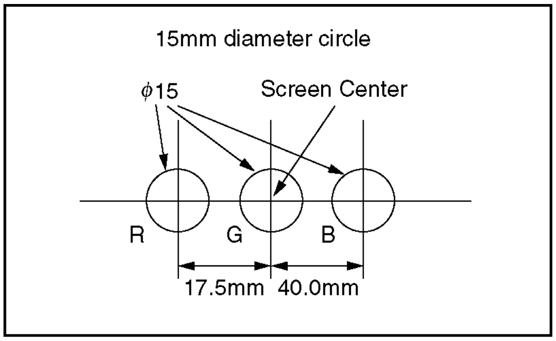
Alignment magnet (or dummy ring)

Procedure:

1. Receive an cross hatch pattern with dots.
2. Cover the Red, Blue CRT lens, projecting Green only.
3. Turn the green electrical focus adjustment VR (on focus pack) fully counterclockwise and note the position of the dots at the center of the picture.
4. Turn the green electrical focus adjustment VR fully clockwise.
5. Adjust the four pole magnets until the shape of the dot at the center of the screen is circular.
6. Adjust for best green electrical focus with green electrical focus adjustment VR.
7. Cover the Green, Red CRT lens, projecting Blue only.
8. Repeat step 4. ~ step 6. for blue electrical focus.
9. Cover the Green, Blue CRT lens, projecting Red only.
10. Repeat step 4. ~ step 6. for red electrical focus.



11. Receive an monoscope pattern.
12. Cover the Red, Blue CRT lens, projecting Green only.
13. If the center of the monoscope pattern is not inside the 15mm circle, shown in below, adjust the centering magnets. Repeat the alignment magnet adjustments and four pole magnet adjustments (step 1. ~ step 6.)



Centering magnet adjustment

14. Cover the Green, Blue CRT lens, projecting Red only.
15. Repeat step 13. for the red.
16. Cover the Green, Red CRT lens, projecting Blue only.
17. Repeat step 13. for the blue.
18. Following adjustments, fix the centering magnets of DY, dummy rings of VM coil, four pole magnets of VM coil and the alignment magnets of VM coil to prevent them from moving.

8 Deflection Adjustment

Caution

1. The following adjustment have to be carried out one with **PAL signal (100i/50p)** and with **NTSC signal (60p/120i)**.
2. Deflection adjustment need to set the Coarse/Fine Convergence to Zero Correction some time.
3. Before Deflection Adjustment are attempted, CRT Set up, Electrical Focus and Optical Lens Focus adjustment must be completed.

8.1. PAL 100Hz mode (100i)

8.1.1. Preparation

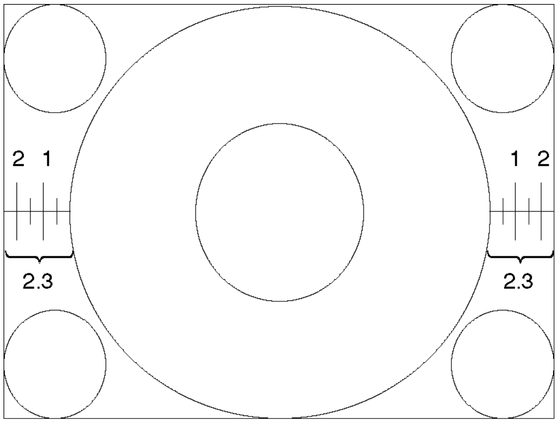
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	170
V-Pos	130	Bottom-Corner	173
H-Parallel	8	V-S-Correct	92
IVBL C	108	C-Correct	6

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

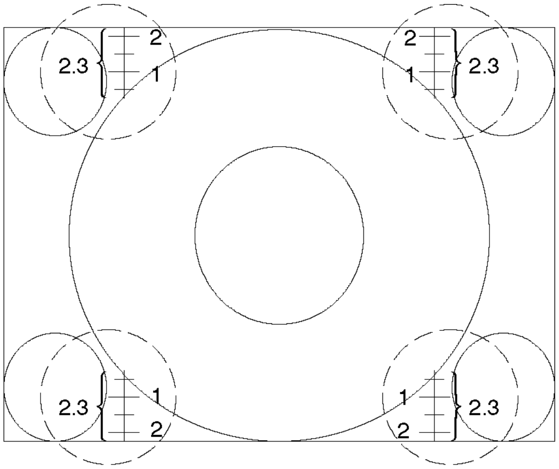
8.1.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.3 ±0.1 division of a scale by H-Amp control.

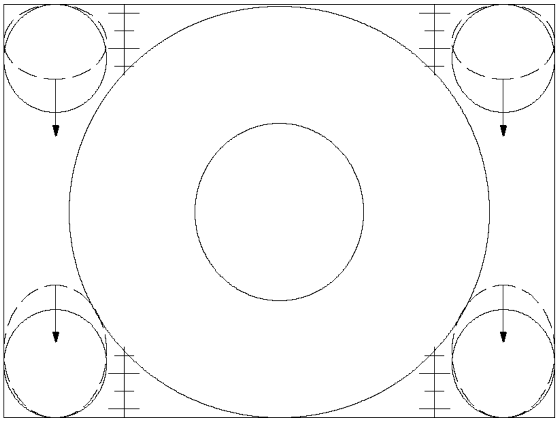


8.1.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.1.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.2. PAL 100Hz V Comp mode (100i)

8.2.1. Preparation

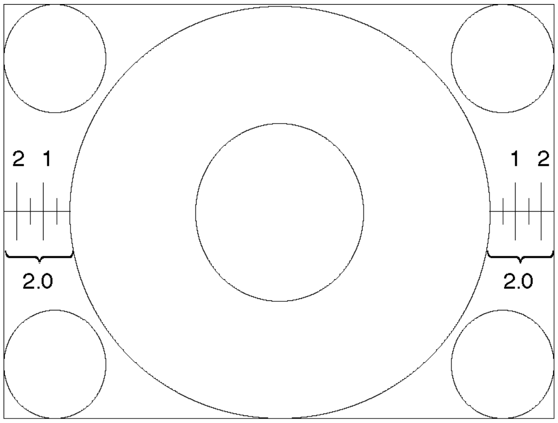
1. Receive PAL monoscope pattern.
2. Set scan mode to 100Hz.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Pos	438	Top-Corner	168
		Bottom-Corner	173
H-Parallel	8	V-S-Correct	45
IVBL C	45	C-Correct	7

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

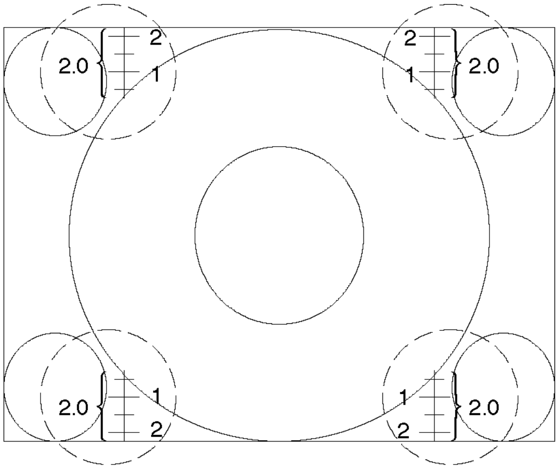
8.2.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.0 ±0.1 division of a scale by H-Amp control.

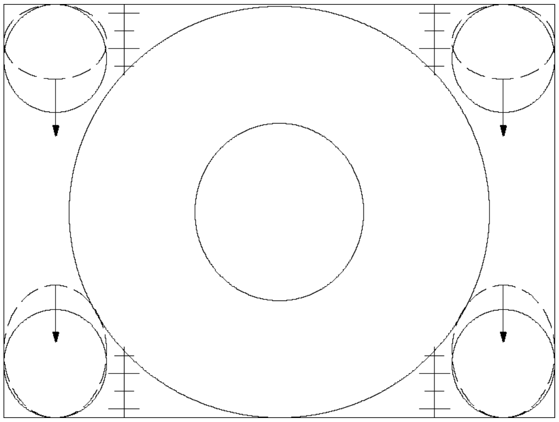


8.2.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center , if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.2.4. Parabola and Trapezoid Adjustment

1. Receive PAL cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.3. PAL Progressive mode (50p)

8.3.1. Preparation

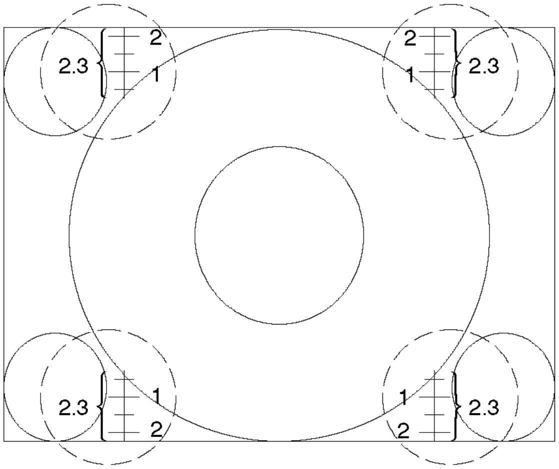
1. Receive PAL monoscope pattern.
2. Copy the Data of PAL 100Hz mode (100i) to PAL Progressive mode (50p)
3. Set scan mode to progressive.
4. Set the Picture Menu to NORMAL.
5. Set the TV to Service Mode 1.
6. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	173
IVBL C	90	V-S-Correct	90
Top-Corner	173	C-Correct	6

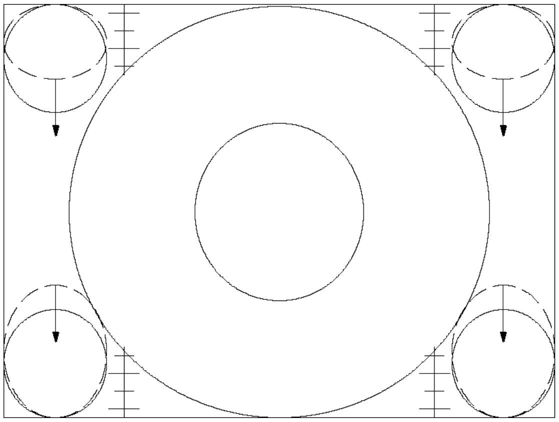
7. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
8. Push [HELP] button so that projecting Green only.

8.3.2. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.4. NTSC Progressive mode (60p)

8.4.1. Preparation

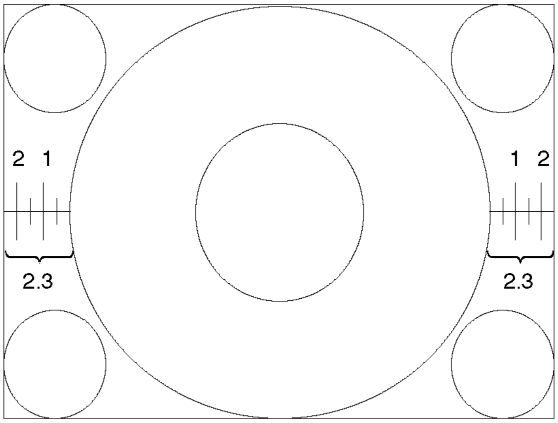
1. Receive NTSC monoscope pattern.
2. Set scan mode to Progressive.
3. Set the Picture Menu to NORMAL.
4. Set the TV to Service Mode 1.
5. Set the Data of Service Mode 1 as follow

H-Parallel	8	Bottom-Corner	167
IVBL C	95	V-S-Correct	92
Top-Corner	176	C-Correct	6

6. Push [0] button so that set the Data of Coarse/Fine Convergence to Zero Correction.
7. Push [HELP] button so that projecting Green only.

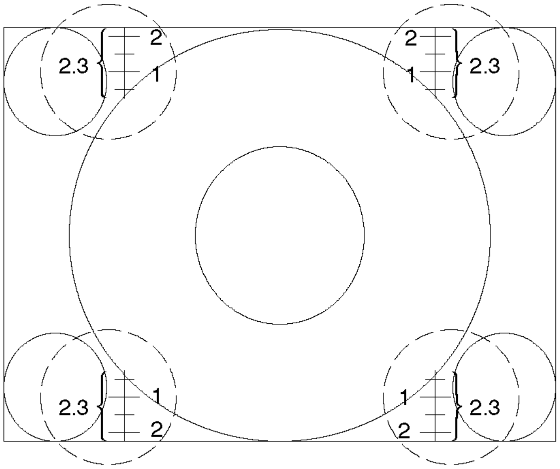
8.4.2. H-Pos and H-Amp Adjustment

1. Adjust Monoscope pattern for center of the screen by H-Pos control.
2. Adjust Horizontal amplitude for 2.3 ± 0.1 division of a scale by H-Amp control.

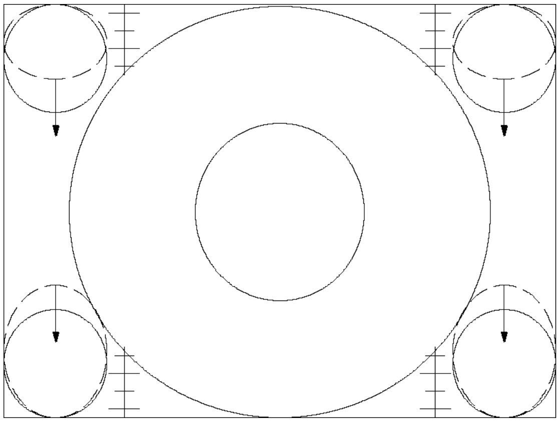


8.4.3. V-Amp, V-Linear and V-Pos Adjustment

1. Adjust Vertical amplitude for 2.3 ± 0.1 division of a scale by V-Amp control.



2. Confirm Vertical Linear as to the balance of circle, if need adjust V-Linear control.



3. Confirm Vertical Center, if it is not correct, adjust Monoscope pattern for center of the screen by V-Pos control.

8.4.4. Parabola and Trapezoid Adjustment

1. Receive NTSC cross hatch pattern.
2. Adjust the vertical line to straight line by Parabola control.
3. Adjust the vertical line to straight line of both side Vertical line by Trapezoid control.

8.5. 525p Deflection Adjustment / Confirmation

8.5.1. V / H-Deflection confirmation

1. Receive 525p signal.
2. Confirm V / H-Deflection is normal.

8.5.2. H-Pos confirmation / Adjustment

1. Receive 525p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

8.6. 625p Deflection Adjustment / Confirmation

8.6.1. V / H-Deflection confirmation

1. Receive 625p signal.
2. Confirm V / H-Deflection is normal

8.6.2. H-Pos confirmation / Adjustment

1. Receive 625p signal.
2. Confirm H-Pos and if need, adjust H-Pos.

9 Adjustment Procedure

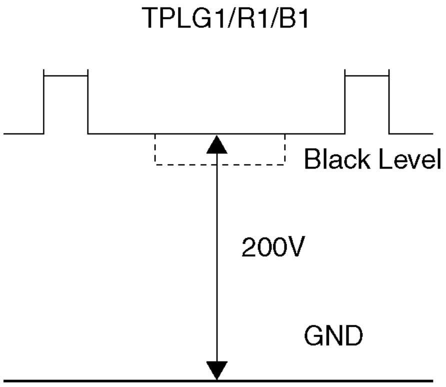
9.1. Cut off Adjustment

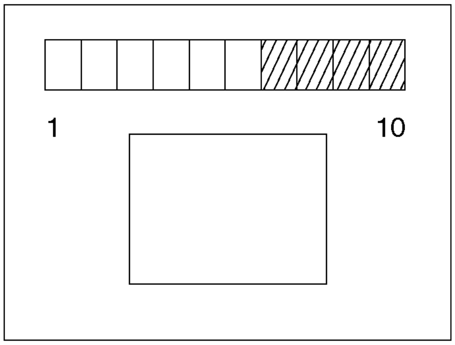
Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255
C Temp : Standard High-RGB : 128
AI : ON Low-RGB : 640
P-NR : AUTO
Scan Mode : 100Hz (PAL) G-Limit : 255
Screen VR : Full Counterclockwise B-Limit : 255

Adjustment

1. Receive a Black Level pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Bright so that the waveform A is 200 ± 2V.
4. Connect an oscilloscope to TPLR1 on LR-Board.
5. Adjust Low-R so that the waveform A is 200 ± 2V.
6. Connect an oscilloscope to TPLB1 on LB-Board.
7. Adjust Low-B so that the waveform A is 200 ± 2V.
8. It pushes and it makes a [HELP] key the project only of GREEN.
9. The 6th paragraph shines faintly with the screen VR of GREEN and the 7th paragraph does to the sinking style.
10. It pushes and it makes a [HELP] key the project only of RED.
11. The 6th paragraph shines faintly with the screen VR of RED and the 7th paragraph does to the sinking style.
12. It pushes and it makes a [HELP] key the project only of BLUE.
13. The 6th paragraph shines faintly with the screen VR of BLUE and the 7th paragraph does to the sinking style.





9.2. Sub Contrast / G-Limit Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 255

C Temp : Standard High-RGB : 128

AI : ON Low-G : 640

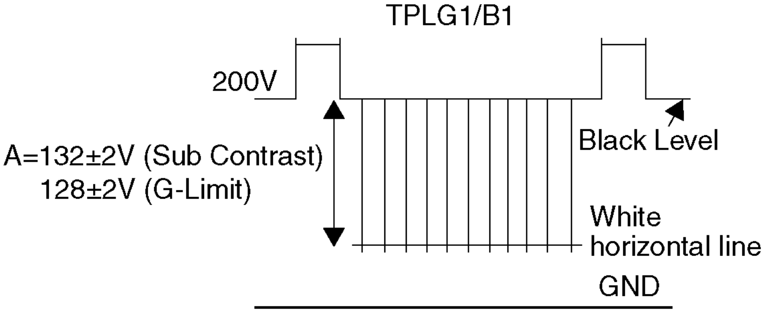
P-NR : AUTO G-Limit : 255

Scan Mode : 100Hz (PAL)

Cut off Adjustment has been adjusted

Adjustment

1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Contrast so that the waveform A is 132 ± 2V.
4. Before G-Limit Adjustment is attempted, Sub Contrast adjustment must be completed.
5. Adjust G-Limit so that the waveform A is 128 ± 2V.


TPLG1/B1
200V
A=132±2V (Sub Contrast)
128±2V (G-Limit)
Black Level
White
horizontal line
GND

9.3. Sub Picture Contrast Adjustment

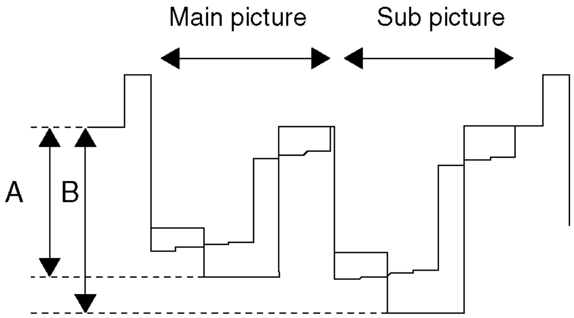
Preparation

Picture Menu : Dynamic

AI : ON

Adjustment

1. Receive a Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Increment / Decrement Video gain2 to adjust Sub-Video level B as same as Main video level A.
4. Write same date on
   Video gain TV as Video gain AV.


Main picture
Sub picture
A
B

9.4. NTSC Tint Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO

C Temp : Standard Scan Mode : 100Hz (PAL)

AI : ON

Adjustment

1. Receive a Rainbow (NTSC 3.58Hz) pattern.
2. Connect an oscilloscope to TPLR1 on LR-Board.
3. Adjust Sub NTSC Tint so that the peak of level of waveform is similar to Fig. A.

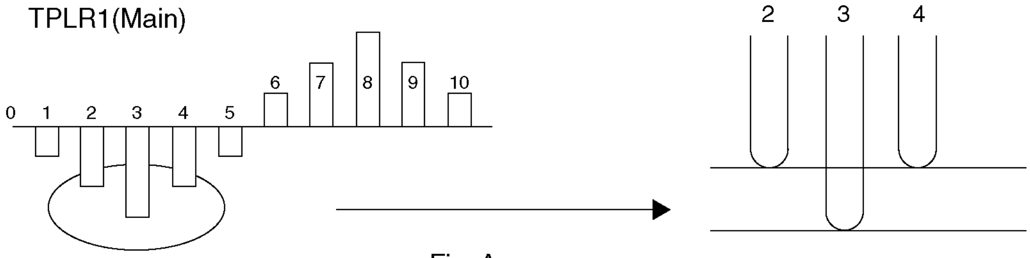

TPLR1(Main)
0
1
2
3
4
5
6
7
8
9
10
2
3
4

Fig. A

4. Receive a Rainbow (NTSC 3.58Hz) pattern on both of Main and Sub picture.
5. Adjust Sub NTSC Tint 2 so that the peak of level of waveform is similar to Fig. B.

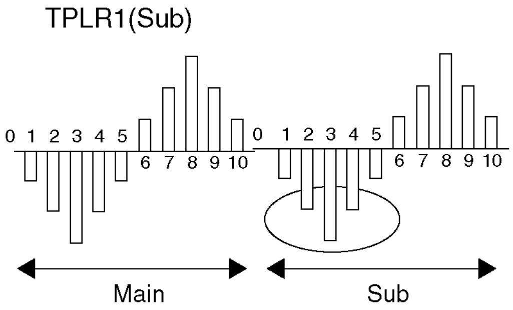

TPLR1(Sub)
0 1 2 3 4 5
6 7 8 9 10
0 1 2 3 4 5
6 7 8 9 10
Main
Sub

Fig. B

9.5. Sub Color Adjustment

Preparation

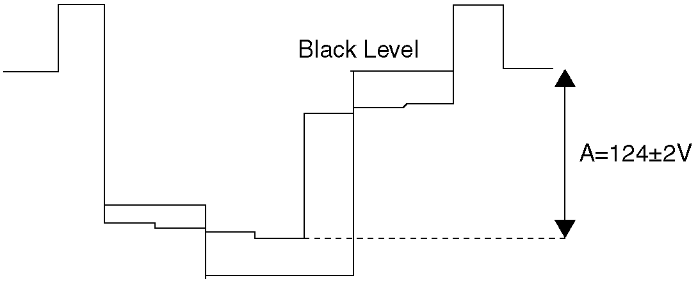
Picture Menu : Dynamic P-NR : AUTO

C Temp : Standard Scan Mode : 100Hz (PAL)

AI : ON ACL : OFF

Adjustment

1. Receive a PAL Colour Bar pattern.
2. Connect an oscilloscope to TPLG1 on LG-Board.
3. Adjust Sub Color so that the waveform A is 124 ± 2V.


Black Level
A=124±2V

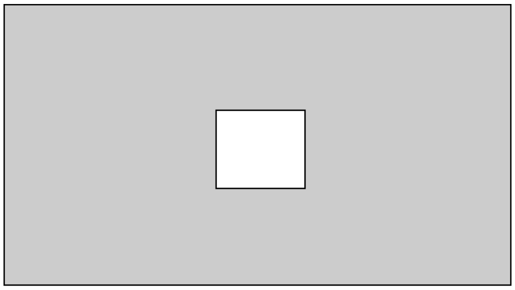
9.6. Blue Focus / Gamma Adjustment

Preparation

Picture Menu : Dynamic WB-B-G-ST1 : 100
C Temp : Standard B-Limit : 255
AI : ON
P-NR : AUTO
Scan Mode : 100Hz (PAL)

Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Set the Sub Contrast and High-B to Max.
4. It pushes and it makes a [HELP] key the project only of BLUE.
5. Adjust Blue Focus VR so that Y is 7.0 ± cd/m^2



9.7. White Balance Adjustment

Preparation

Picture Menu : Dynamic Sub Bright :130
C Temp : Standard High R : 100
AI : ON
P-NR : ON High B : 128
Scan Mode : 100Hz (PAL) WB-B-G-ST1 : 170
Low G : 640

Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a Window pattern.
3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.
4. Adjust High R, WB-B-G-ST1, High B, Low R, and Low B to the table value.

51 inch model

Mode	Bright (cd/m^2)	Controle DAC name		Target (x) (y)	C. Temp (K)	MPCD
		RED	BLUE			
Hi	96	High R	WB–B–G–ST1	0.270 ± 0.005	13000 ± 500	–5 ± 5
				0.240 ± 0.005		
Mid	35	– – –	High B	0.270	11500 ± 500	–20 ± 5
				0.230 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	–25 ± 5
				0.240 ± 0.008		

43 inch model

Mode	Bright (cd/m²)	Controle DAC name		Target (x) (y)	C. Temp (K)	MPCD
		RED	BLUE			
Hi	120	High R	WB–B–G–ST1	0.266 ± 0.005	13000 ± 500	–5 ± 5
				0.246 ± 0.005		
Mid	40	– – –	High B	0.270	11500 ± 500	–20 ± 5
				0.240 ± 0.005		
Low	3	Low R	Low B	0.280 ± 0.008	9200 ± 500	–25 ± 5
				0.240 ± 0.008		

9.8. Sub Bright Adjustment

Preparation

Picture Menu : Dynamic P-NR : AUTO

C Temp : Dynamic Scan Mode : 100Hz (PAL)

AI : ON

Cut off and White Balance Adjustment has been adjusted

Adjustment

1. Set the White Balance Meter on Screen center.
2. Receive a PAL Window pattern.
3. Adjust Sub Bright so that the 6th paragraph shines faintly and the 7th paragraph does to the sinking style.

9.9. Blue Limit Adjustment

Preparation

Picture Menu : Dynamic

C Temp : Standard

AI : ON

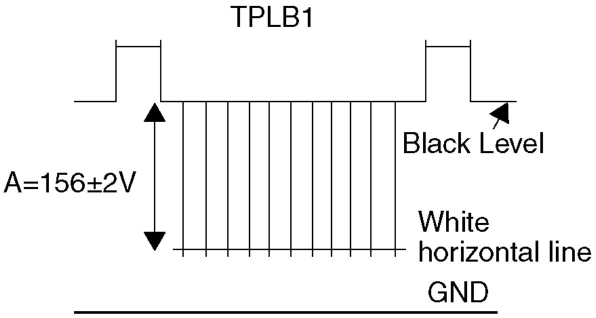
P-NR : ON

Scan Mode : 100Hz (PAL)

White Balance Adjustment has been adjusted

Adjustment

1. Receive a Cross Hatch pattern.
2. Connect an oscilloscope to TPLB1 on LB-Board.
3. Adjust B-LIMIT so that the waveform A is 156 ± 2V.



10 Convergence Adjustment

The convergence adjustment is set separately for each 50/100Hz/ 60/100Hz input (NTSC, PAL/ SECAM). The following explanation uses the PAL mode as an example, since the same procedure applies to the convergence adjustment for NTSC mode.

When replacing the following Parts.

IC7301 (EEP-ROM in A-Board)L551 (Pincushion Coil)High Voltage Producing Parts Other Parts (If change the convergence)

Create an Adjustment Sheet by tracing the following specifications in their actual size on transparent film or tracing paper.Then adjust the convergence.

When replacing one of the CRT´s.

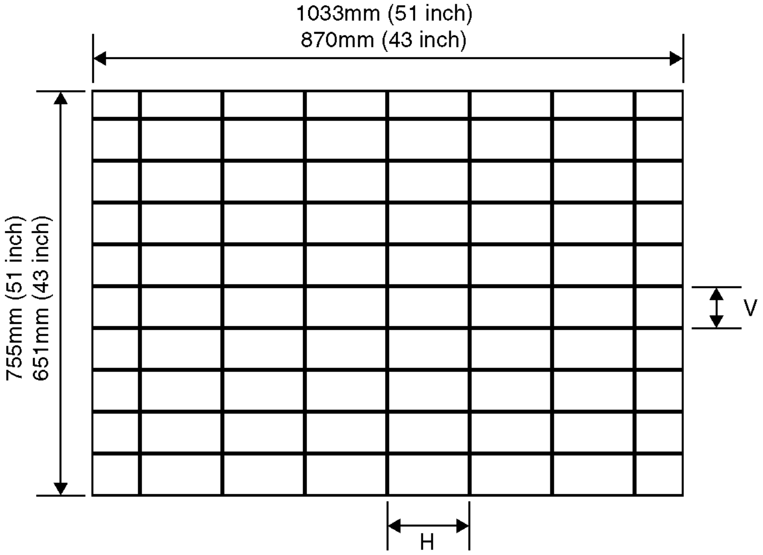
Adjust the convergence for each of the 50/100Hz and 60/120Hz inputs so that they are aligned with the other colours.

Helpful Hint

All positions which have been adjusted are recorded within P-2 for NTSC data and P-3 for PAL data of the memory.This data can be copied to P-4 memory area, allowing you to perform the adjustment of P-2 (NTSC) and P-3 (PAL).To perform these adjustments, push the SEARCH button on the remote control, and manipulate the position [▲] and [▼] button and the "N" button as instructed by the On Screen Display in Fine Convergence adjustment.

All of the Convergence Control Charts have been listed for the remote control buttons after the Convergence Adjustment Procedure Please refer to these. (Page 29)

10.1. Convergence Adjustment Sheet



51inch

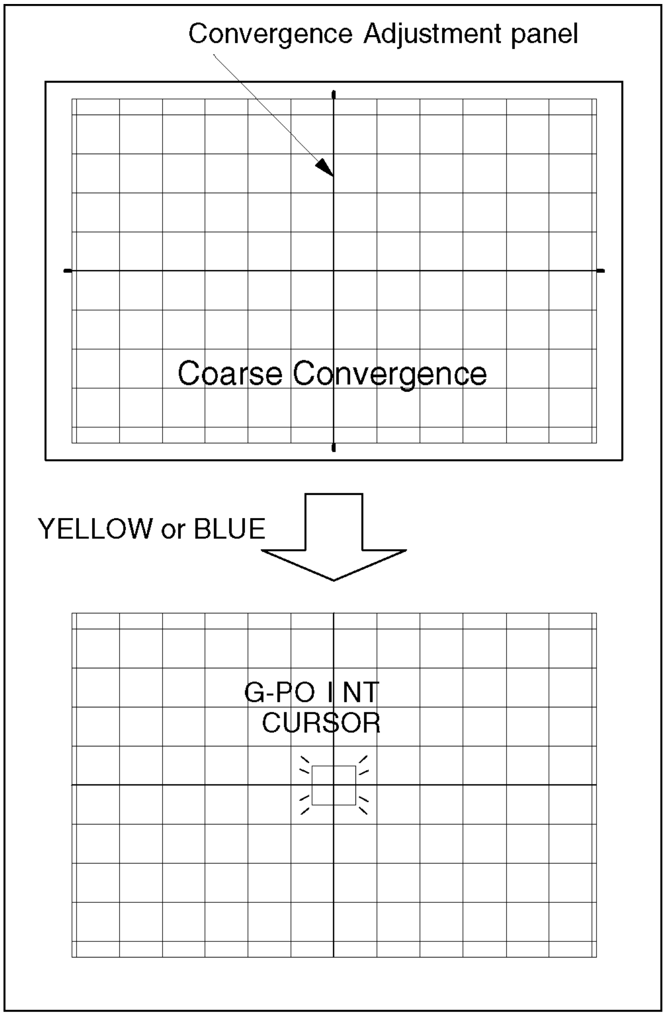
	メッシュピッチ(mm)	
信号	H	V
PAL 100	176.5	100.0
PAL V.Comp	176.5	51.5
PAL Progressive	176.5	100.0
NTSC Progressive	170.5	102.5

43inch

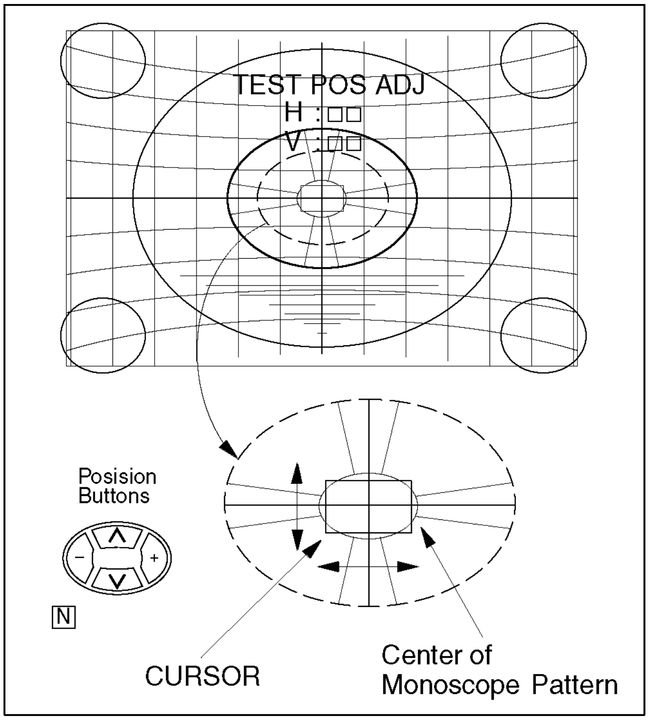
	メッシュピッチ(mm)	
信号	H	V
PAL 100	149.0	84.5
PAL V.Comp	149.0	43.5
PAL Progressive	149.0	84.5
NTSC Progressive	143.5	86.5

10.2. Convergence Adjustment Procedure

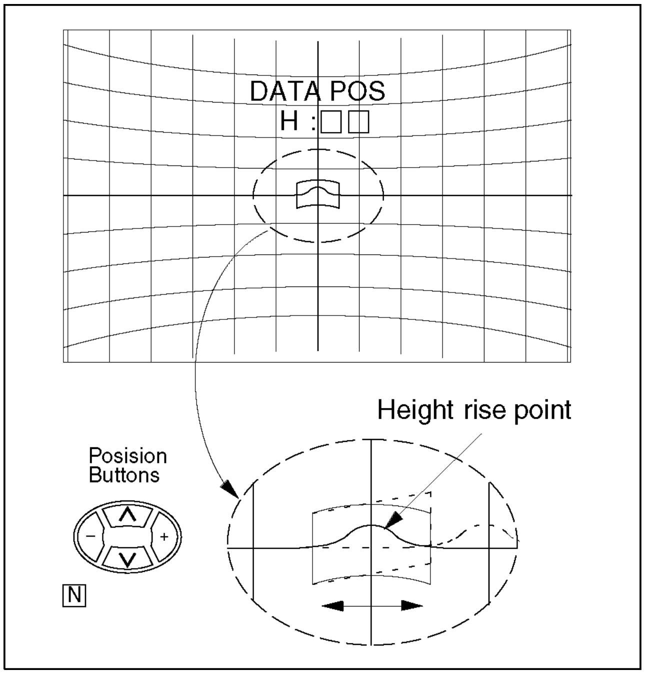
1. Input a monoscope pattern of PAL.
2. Enter the Service Mode1.
3. Select the Coarse Convergence by pushing "RED" or "GREEN" buttons. Then push "YELLOW" button, and push Position and [N] buttons to set the data to zero.
4. Stick the Convergence Adjustment Sheet (PAL 50Hz) onto the screen.
5. Push the “YELLOW” or “BLUE” on the remote control, and enter the Coarse Convergence Adjustment mode.


Convergence Adjustment panel
Coarse Convergence
YELLOW or BLUE
G-POINT
CURSOR

6. Push the "0" of 10 key buttons, and then push the "N" of position buttons on the remote control.
7. Enter to "TEST POS." mode.
8. Push the "5" button to display the monoscope pattern on the screen.
9. Adjust the position buttons so that the cursor in the center of the test pattern is aligned with the center of the monoscope pattern.

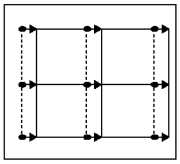
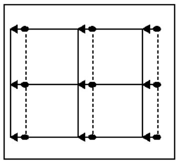
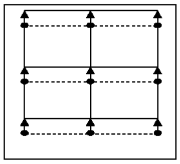
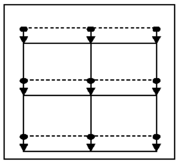
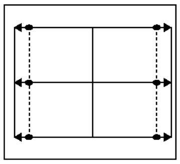
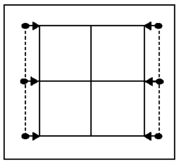
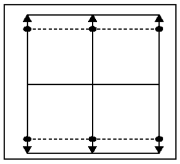
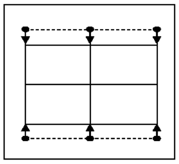
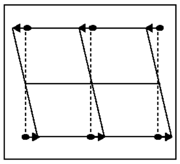
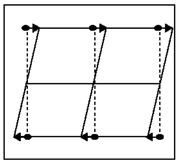
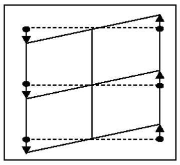
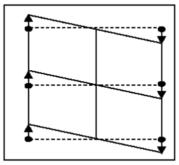

TEST POS ADJ
H :□□
V :□□
Posision Buttons
N
CURSOR
Center of Monoscope Pattern

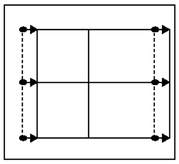
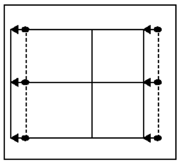
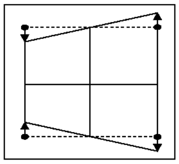
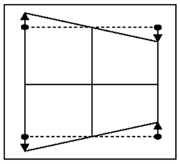
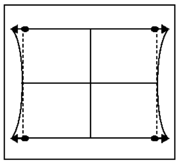
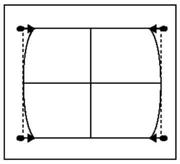
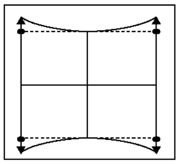
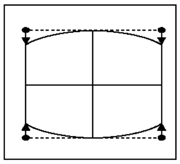
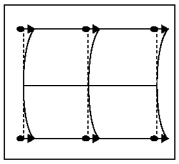
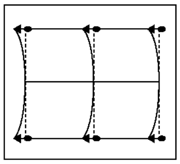
10. Push the "TV/AV" button on the remote control, and enter the "DATA POS." mode.
11. Push the "5" button and close the background image (monoscope pattern).
12. Use the "+" and "-" of the position buttons so that the bump in the screen center line is at the center of the cursor.


DATA POS
H :□□
Height rise point
Posision Buttons
N

13. Push the "TV/AV" button twice, and enter the "OSD POS" mode.
14. Adjust the position buttons so that the cross-cursor is aligned near cross-bar.
15. Push the "SET UP" button, and "N" button to store data.
16. Push the "0" of 10 key buttons, and return to Coarse Convergence Adjustment mode.

10.3. Coarse Convergence Adjustment mode

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
1	STATIC	H	R	123		
			G	10		
			B	–229		
		V	R	–8		
			G	–5		
			B	–8		
2	SIZE	H	R	–69		
			G	–38		
			B	–93		
		V	R	–5		
			G	–6		
			B	–15		
3	SKEW	H	R	–14		
			G	–5		
			B	–10		
		V	R	0		
			G	0		
			B	–2		

	MODE	SAMPLE DATA			DAC DATA UP	DAC DATA DOWN
3	LINEARITY	H	R	–107		
			G	88		
			B	319		
4	KEYSTONE	V	R	102		
			G	32		
			B	–111		
5	PIN	H	R	61		
			G	48		
			B	53		
		V	R	227		
			G	268		
			B	258		
6	CORNER	H	R	+31		
			G	–19		
			B	–69		

10.3.1. Green Coarse Convergence Adjustment

10.3.1.1. Reparation

Push the "SOUND" button, and select the Green Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Green" colour.

10.3.1.2. "G-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (V)".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame.

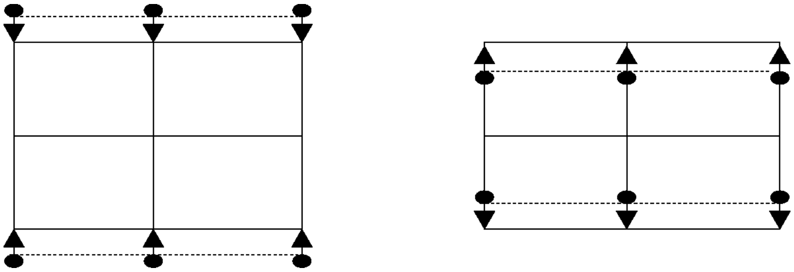


Fig. A : V–SIZE

10.3.1.3. "G-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "G-SIZE (H)".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame.

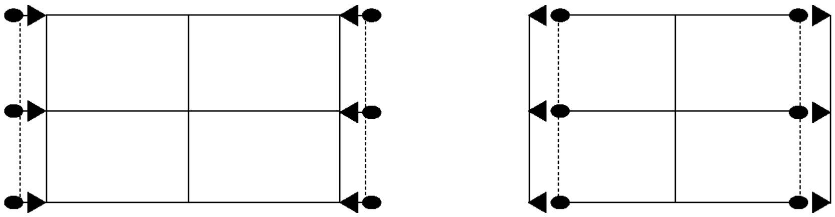


Fig. B : H–SIZE

10.3.1.4. "G-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "G-LINEAR".Push the "Volume up/down" buttons, and adjust the "G-LINEAR" to become the following figure.

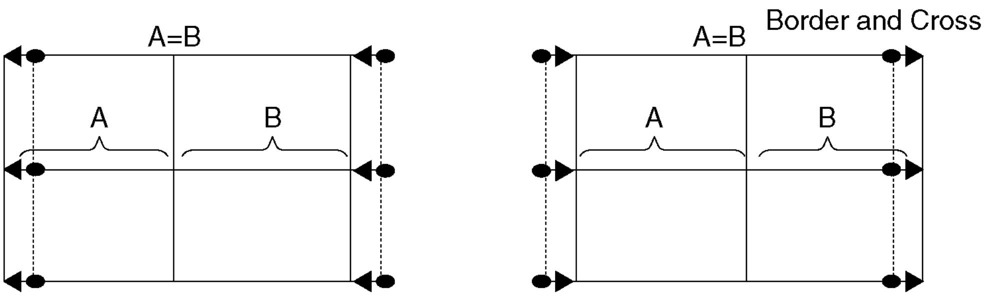


Fig.C : LINEAR

10.3.1.5. "G-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Channel up/down" buttons, and adjust the "G-PIN (V)" to become the following figure.

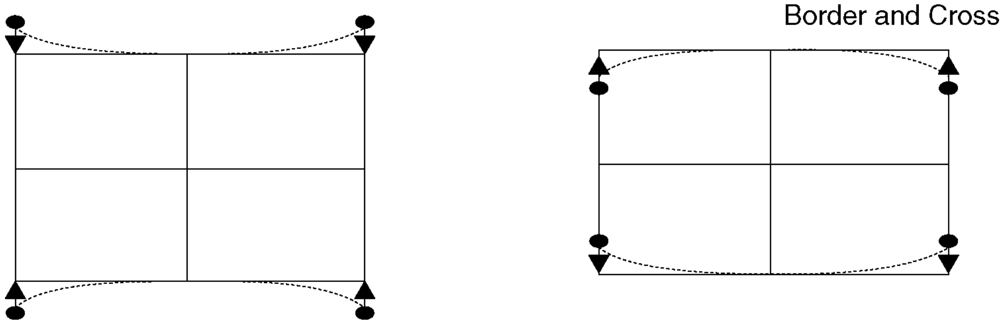


Fig.D : V-PIN

10.3.1.6. "G-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "G-PIN".Push the "Volume up/down" buttons, and adjust the "G-PIN (H)" to become the following figure.

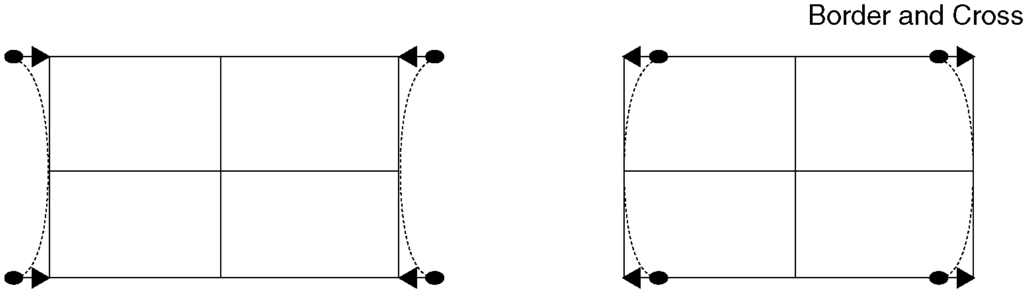


Fig.E : H-PIN

10.3.1.7. "G-CORNER" adjustment

Push the "TV/AV" buttons, and select the "G-CORNER".Push the "Volume up/down" buttons, and adjust the "G-CORNER" to become the following figure.

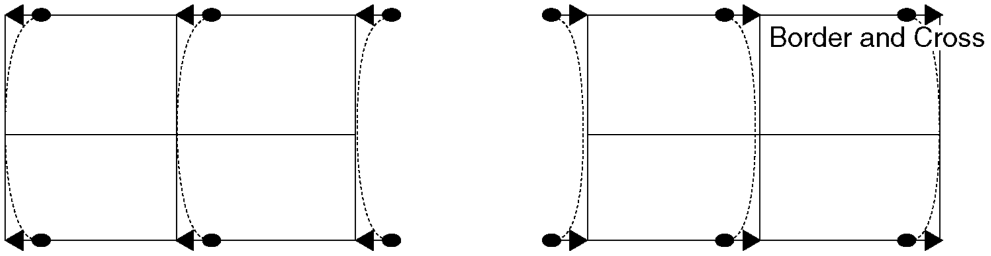

Border and Cross

Fig.F : CORNER

10.3.1.8. "G-KEY" adjustment

Push the "TV/AV" buttons, and select the "G-KEY".Push the "Channel up/down" buttons, and adjust the "G-KEY" refer to following figure.

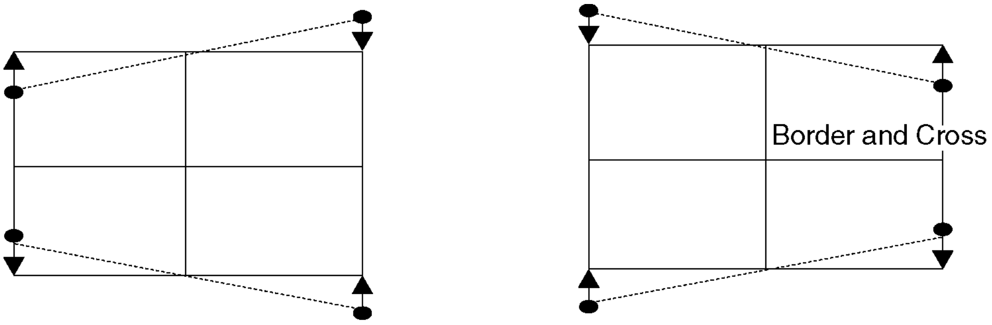

Border and Cross

Fig.G : KEY

10.3.1.9. "G-STATIC" adjustment

Push the "TV/AV" buttons, and select the "G-STATIC".Push the "Channel/Volume up/down" buttons, and adjust "G-STATIC" so that Horizontal & Vertical center line is aligned with the bump in the screen center mark.

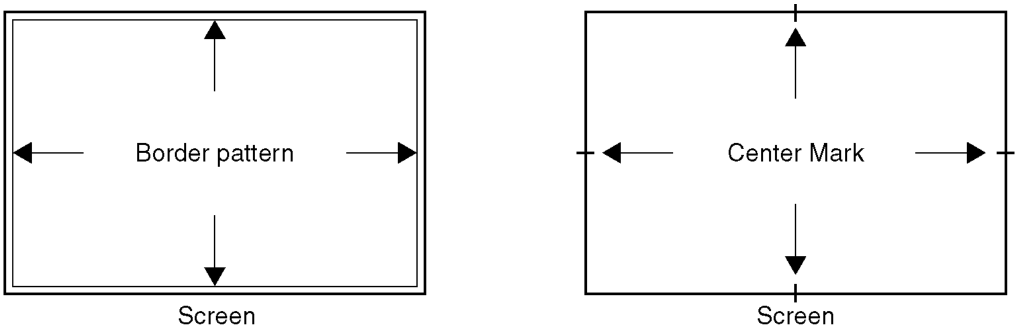

Border pattern
Screen
Center Mark
Screen

Fig.H STATIC

10.3.2. Red Coarse Convergence Adjustment

10.3.2.1. Reparation

Push the "SOUND" button, and select the Red Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Yellow" colour.Push the "POSITION" button, and adjust the "R-STATIC" so that the Red color of pattern is aligned with Green colour of pattern.

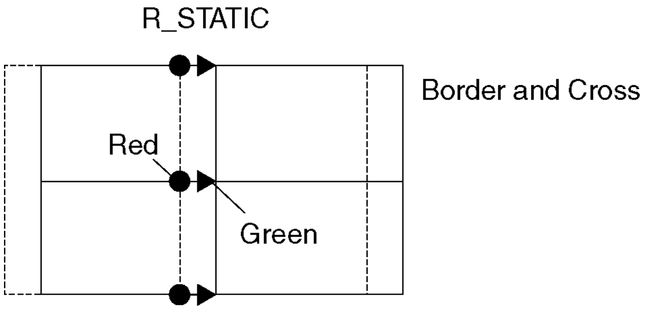


Fig.I : R-STATIC

10.3.2.2. "R-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to figure.)

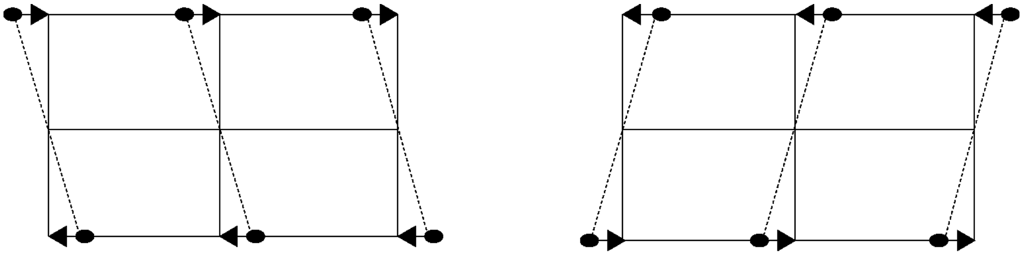


Fig.J : SKEW(V)

10.3.2.3. "R-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to figure.)

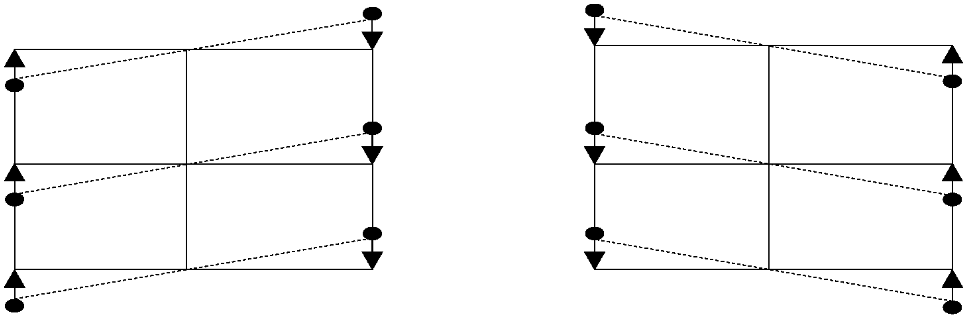


Fig.K : SKEW(H)

10.3.2.4. "R-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.2.5. "R-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "R-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.2.6. "R-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "R-LINEAR".Push the "Volume up/down" buttons, and adjust the "R-LINEAR". (Refer to Fig. C.)

10.3.2.7. "R-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Channel up/down" buttons, and adjust the "R-PIN (V)". (Refer to Fig. D.)

10.3.2.8. "R-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "R-PIN".Push the "Volume up/down" buttons, and adjust the "R-PIN (H)". (Refer to Fig. E.)

10.3.2.9. "R-CORNER" adjustment

Push the "TV/AV" buttons, and select the "R-CORNER".Push the "Channel up/down" buttons, and adjust the "R-CORNER". (Refer to Fig. F.)

10.3.2.10. "R-KEY" adjustment

Push the "TV/AV" buttons, and select the "R-KEY".Push the "Channel up/down" buttons, and adjust the "R-KEY". (Refer to Fig. G.)

10.3.2.11. "R-STATIC" adjustment

Push the "TV/AV" buttons, and select the "R-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "R-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

10.3.3. Blue Coarse Convergence Adjustment

10.3.3.1. Reparation

Push the "SOUND" button, and select the Blue Adjustment mode.Push the "2" button, and select the "Border and Cross" pattern.Push the "MUTE" button, and select the "Cyan" colour.Push the "POSITION" button, and adjust the "B-STATIC" so that the Blue color of pattern is aligned with Green colour of pattern.

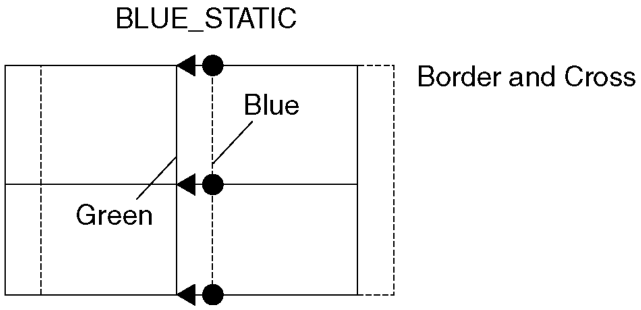


Fig.L : B-STATIC

10.3.3.2. "B-SKEW (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Volume up/down" buttons, and adjust the reference line become a vertical line. (Refer to Fig. J.)

10.3.3.3. "B-SKEW (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SKEW".Push the "Channel up/down" buttons, and adjust reference line become a horizontal line. (Refer to Fig.K.)

10.3.3.4. "B-SIZE (V)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Channel up/down" buttons, and adjust the upper and lower boarder line of test pattern is aligned with the edge of the screen frame. (Refer to Fig. A.)

10.3.3.5. "B-SIZE (H)" adjustment

Push the "TV/AV" buttons, and select the "B-SIZE".Push the "Volume up/down" buttons, and adjust the boarder line on either side of test pattern is aligned with the edge of the screen frame. (Refer to Fig. B.)

10.3.3.6. "B-LINEAR" adjustment

Push the "TV/AV" buttons, and select the "B-LINEAR".Push the "Volume up/down" buttons, and adjust the "B-LINEAR". (Refer to Fig. C.)

10.3.3.7. "B-PIN (V)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Channel up/down" buttons, and adjust the "B-PIN (V)" (Refer to Fig. D.)

10.3.3.8. "B-PIN (H)" adjustment

Push the "TV/AV" buttons, and select the "B-PIN".Push the "Volume up/down" buttons, and adjust the "B-PIN (H)". (Refer to Fig. E.)

10.3.3.9. "B-CORNER" adjustment

Push the "TV/AV" buttons, and select the "B-CORNER".Push the "Channel up/down" buttons, and adjust the "B-CORNER". (Refer to Fig. F.)

10.3.3.10. "B-KEY" adjustment

Push the "TV/AV" buttons, and select the "B-KEY".Push the "Channel up/down" buttons, and adjust the "B-KEY". (Refer to Fig. G.)

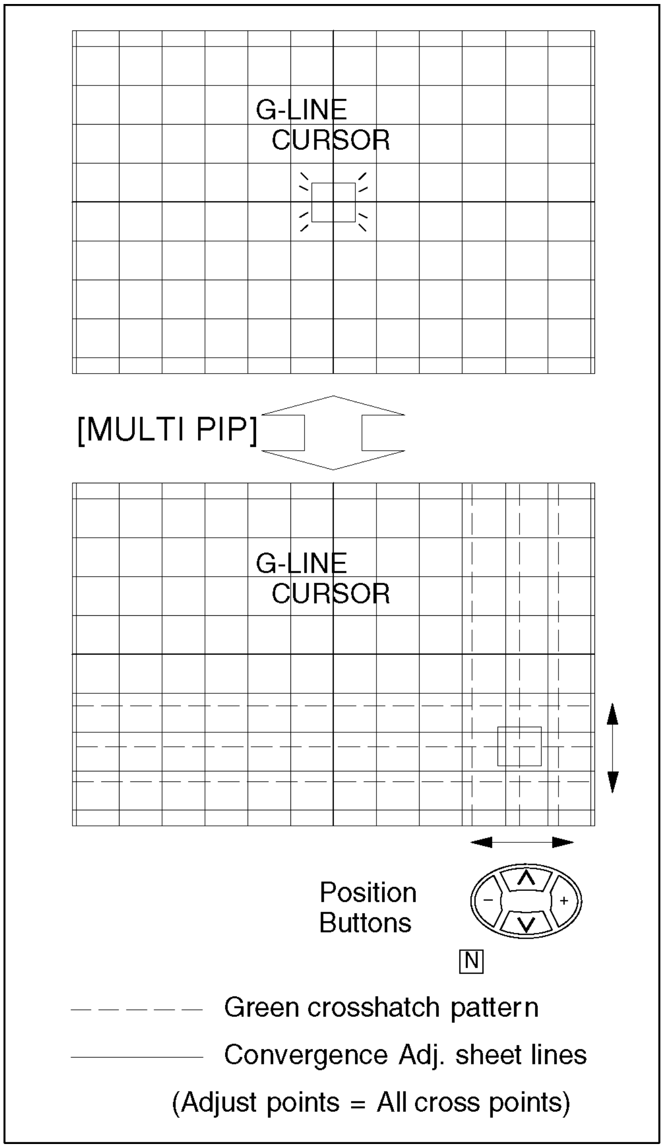
10.3.3.11. "B-STATIC" adjustment

Push the "TV/AV" buttons, and select the "B-STATIC.Push the "Channel/Volume up/down" buttons, and adjust "B-STATIC" so that Horizontal & Vertical Center line is aligned with the bump in the screen center mark. (Refer to Fig. H.)

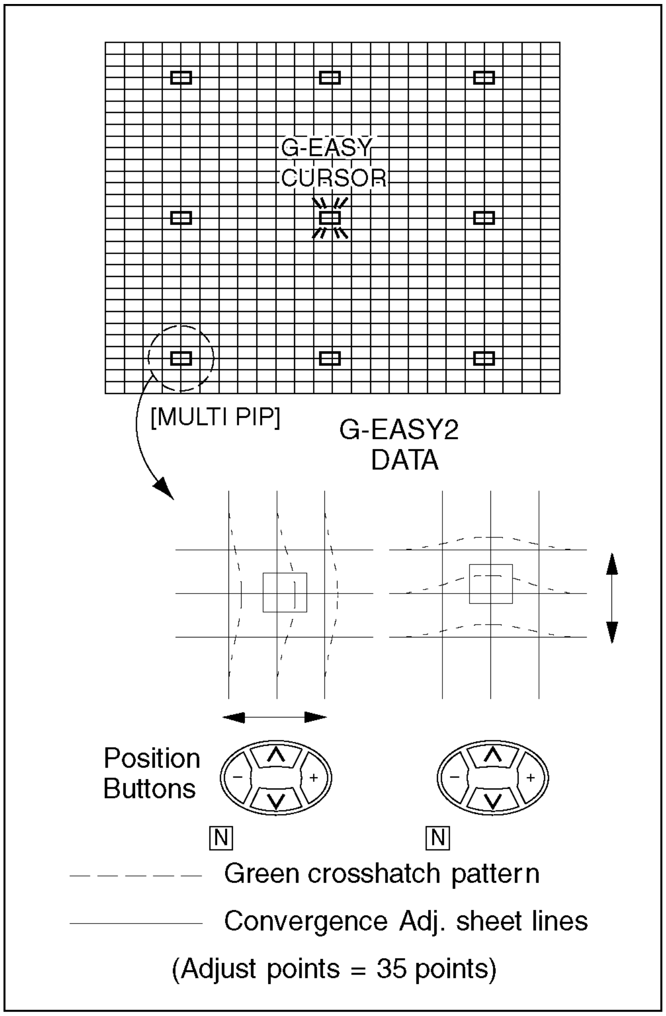
10.4. Fine Convergence Adjustment

10.4.1. Green Convergence Adjustment

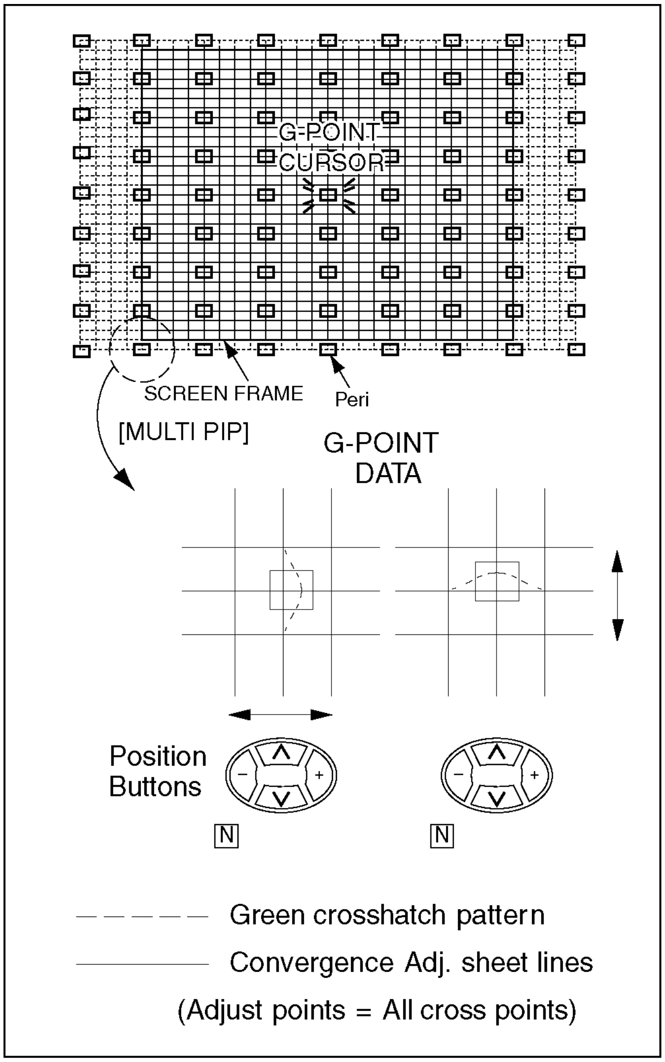
1. Select the "G-LINE CURSOR" mode by pushing "TV/AV" button on the remote control


G-LINE CURSOR
[MULTI PIP]
G-LINE CURSOR
Position Buttons
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = All cross points)

2. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
3. Use the Position Buttons to adjust each point (line) so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
4. Push the "MULTI PIP" and switch from "G-LINE DATA" to "G-LINE CURSOR".
5. Repeat step 2~4 to adjust the vertical lines (13) and the horizontal lines (9).
6. Select the "G-EASY CURSOR" mode by pushing "TV/AV" button on the remote control.
7. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment point). Then use the "MULTI PIP" to change from "G-EASY CURSOR" to "G-EASY DATA".
8. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
9. Push the "MULTI PIP" and with from "G-EASY DATA" to "G-EASY CURSOR".
10. Repeat step 7~9 to adjust the 9 adjustment points.


G-EASY CURSOR
[MULTI PIP]
G-EASY2 DATA
Position Buttons
N
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = 35 points)

11. Select the "G-POINT CURSOR" mode by pushing "TV/AV" button on the remote control.
12. Use the Position Buttons to move the cursor to the point where you wish to change the data (adjustment lines). Then use the "MULTI PIP" to change from "G-LINE CURSOR" to "G-LINE DATA".
13. Use the Position Buttons to adjust each point so that the Green Crosshatch Pattern is aligned with the vertical and horizontal lines of the Convergence Adjustment Sheet.
14. Push the "MULTI PIP" and switch from "G-POINT DATA" to "G-POINT CURSOR".
15. Repeat step 12-14 to adjust all of adjustment points.


G-POINT
CURSOR
SCREEN FRAME
Peri
[MULTI PIP]
G-POINT
DATA
Position
Buttons
N
N
Green crosshatch pattern
Convergence Adj. sheet lines
(Adjust points = All cross points)

16. Adjust the LINE, EASY and POINT DATA again viewing all over the screen.

    If need the adjustment at the around of screen, select the "ORIGINAL" and adjust it.

17. To store the data after the Green Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button (pushing the "N" button will store the data in the E^2PROM).
18. Remove the Convergence Adjustment Sheet from the screen.

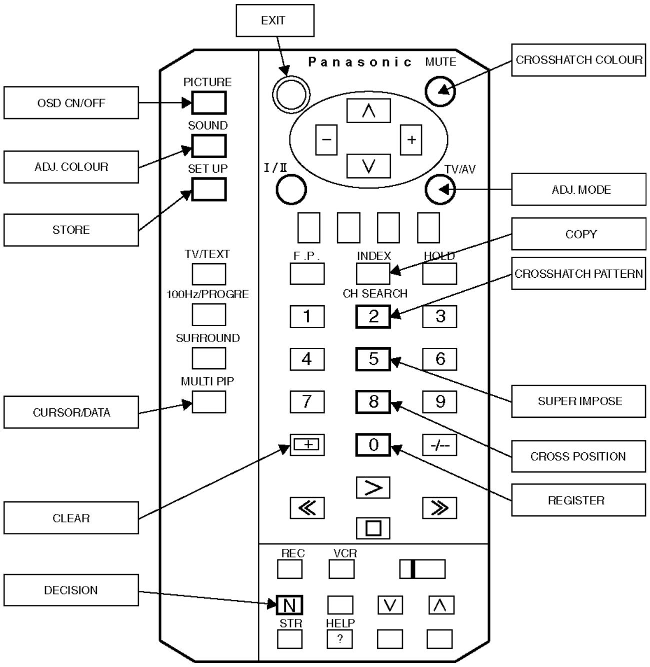
10.4.2. Red Convergence Adjustment

1. Push the "MUTE" button twice and change to the Red Adjustment of Yellow Colour.
2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Red Convergence Adjustment.
3. To store the data after the Red Convergence Adjustment has been completed, push the "MAIN MENU" button and then the "N" button.

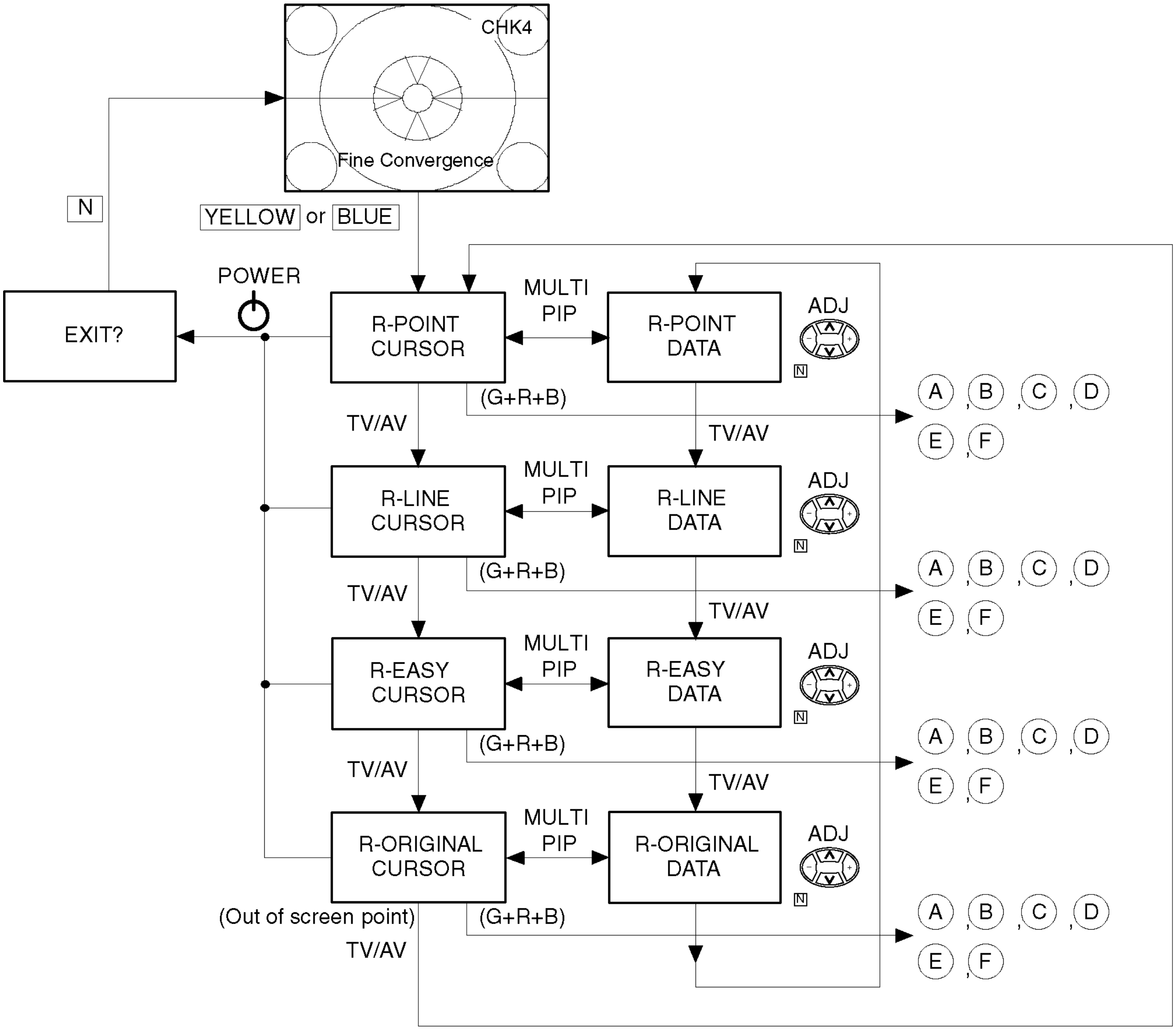
10.4.3. Blue Convergence Adjustment

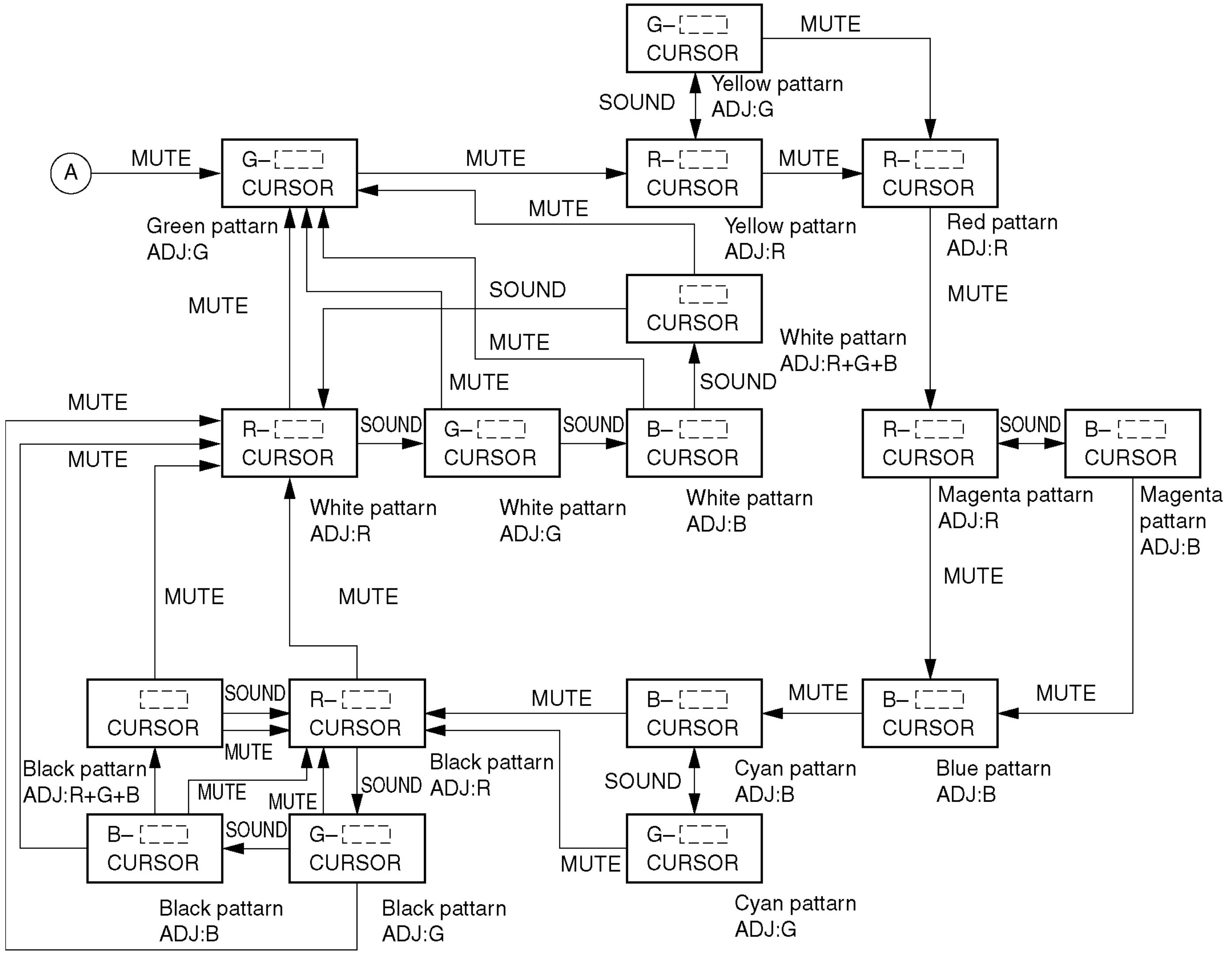
1. Push the "MUTE" button twice and change to the Blue Adjustment of cyan Colour.
2. Repeat the same steps described for the Green Conv.Adj. in 1~16 to perform the Blue Convergence Adjustment.
3. To store the data after the Blue Convergence Adjustment has been completed, push the "MAIN MENU" button and then push the "N" button.
4. To switch from the Convergence Adjustment Mode to the Service Mode, press the Power button and then push the "N" button.

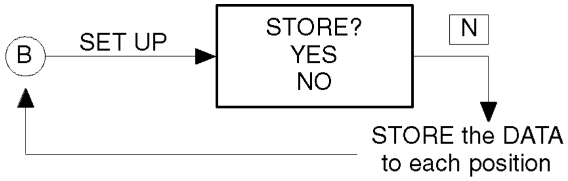
Repeat the same adjustment after inputting the 60Hz (NTSC) signal.

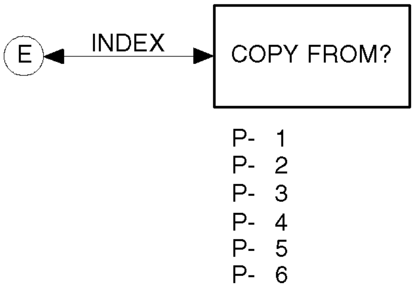

EXIT
OSD ON/OFF
ADJ. COLOUR
STORE
CURSOR/DATA
CLEAR
DECISION
CROSSHATCH COLOUR
ADJ. MODE
COPY
CROSSHATCH PATTERN
SUPER IMPOSE
CROSS POSITION
REGISTER
Panasonic
MUTE
PICTURE
SOUND
SET UP
I/II
TV/AV
TV/TEXT
F.P.
INDEX
HOLD
100Hz/PROGRE
CH SEARCH
SURROUND
MULTI PIP
1
2
3
4
5
6
7
8
9
0
-/--
REC
VCR
N
STR
HELP
?

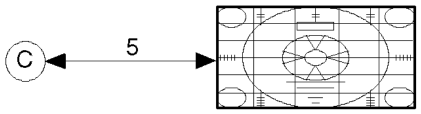
Fine Convergence Control Chart

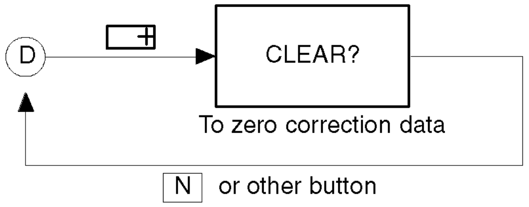

CHK4
Fine Convergence
N
YELLOW or BLUE
POWER
EXIT?
R-POINT CURSOR
MULTI PIP
R-POINT DATA
ADJ
N
(G+R+B)
TV/AV
A, B, C, D
E, F
R-LINE CURSOR
R-LINE DATA
R-EASY CURSOR
R-EASY DATA
R-ORIGINAL CURSOR
R-ORIGINAL DATA
(Out of screen point)

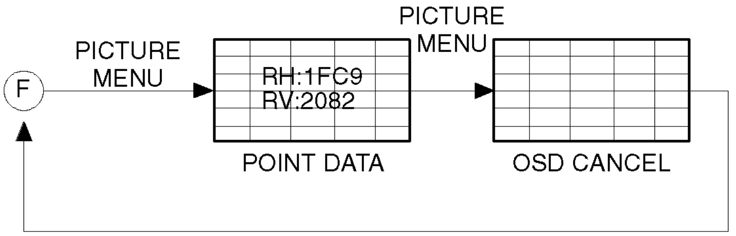

A
MUTE
G–
CURSOR
Green pattern
ADJ:G
MUTE
R–
CURSOR
Yellow pattern
ADJ:R
G–
CURSOR
SOUND
Yellow pattern
ADJ:G
MUTE
MUTE
R–
CURSOR
Red pattern
ADJ:R
MUTE
MUTE
SOUND
CURSOR
White pattern
ADJ:R+G+B
MUTE
SOUND
MUTE
MUTE
MUTE
R–
CURSOR
SOUND
G–
CURSOR
SOUND
B–
CURSOR
White pattern
ADJ:R
White pattern
ADJ:G
White pattern
ADJ:B
R–
CURSOR
SOUND
B–
CURSOR
Magenta pattern
ADJ:R
Magenta
pattern
ADJ:B
MUTE
MUTE
MUTE
CURSOR
SOUND
R–
CURSOR
MUTE
B–
CURSOR
MUTE
B–
CURSOR
MUTE
MUTE
Black pattern
ADJ:R+G+B
MUTE
MUTE
SOUND
Black pattern
ADJ:R
SOUND
Cyan pattern
ADJ:B
Blue pattern
ADJ:B
B–
CURSOR
SOUND
G–
CURSOR
MUTE
G–
CURSOR
Black pattern
ADJ:B
Black pattern
ADJ:G
Cyan pattern
ADJ:G


B
SET UP
STORE?
YES
NO
N
STORE the DATA
to each position


E
INDEX
COPY FROM?
P- 1
P- 2
P- 3
P- 4
P- 5
P- 6

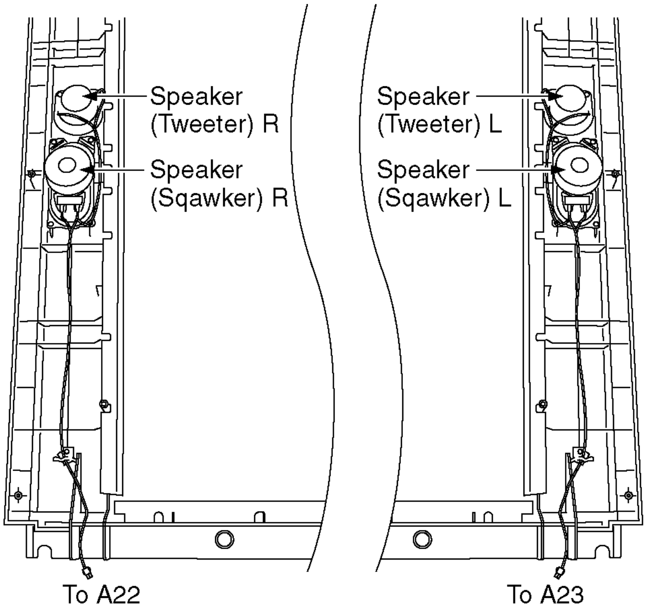

C
5


D
CLEAR?
To zero correction data
N
or other button

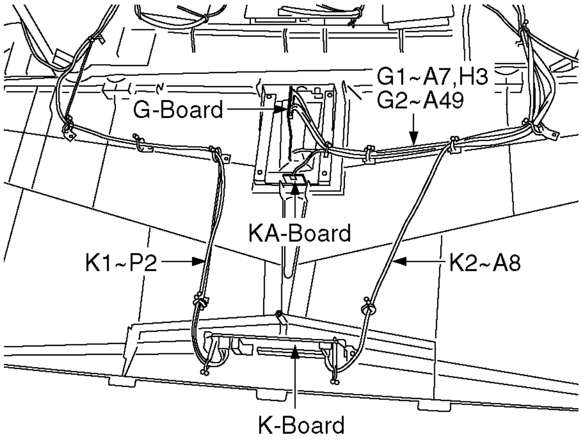

F
PICTURE
MENU
RH:1FC9
RV:2082
POINT DATA
PICTURE
MENU
OSD CANCEL

11 Location of Lead Wiring

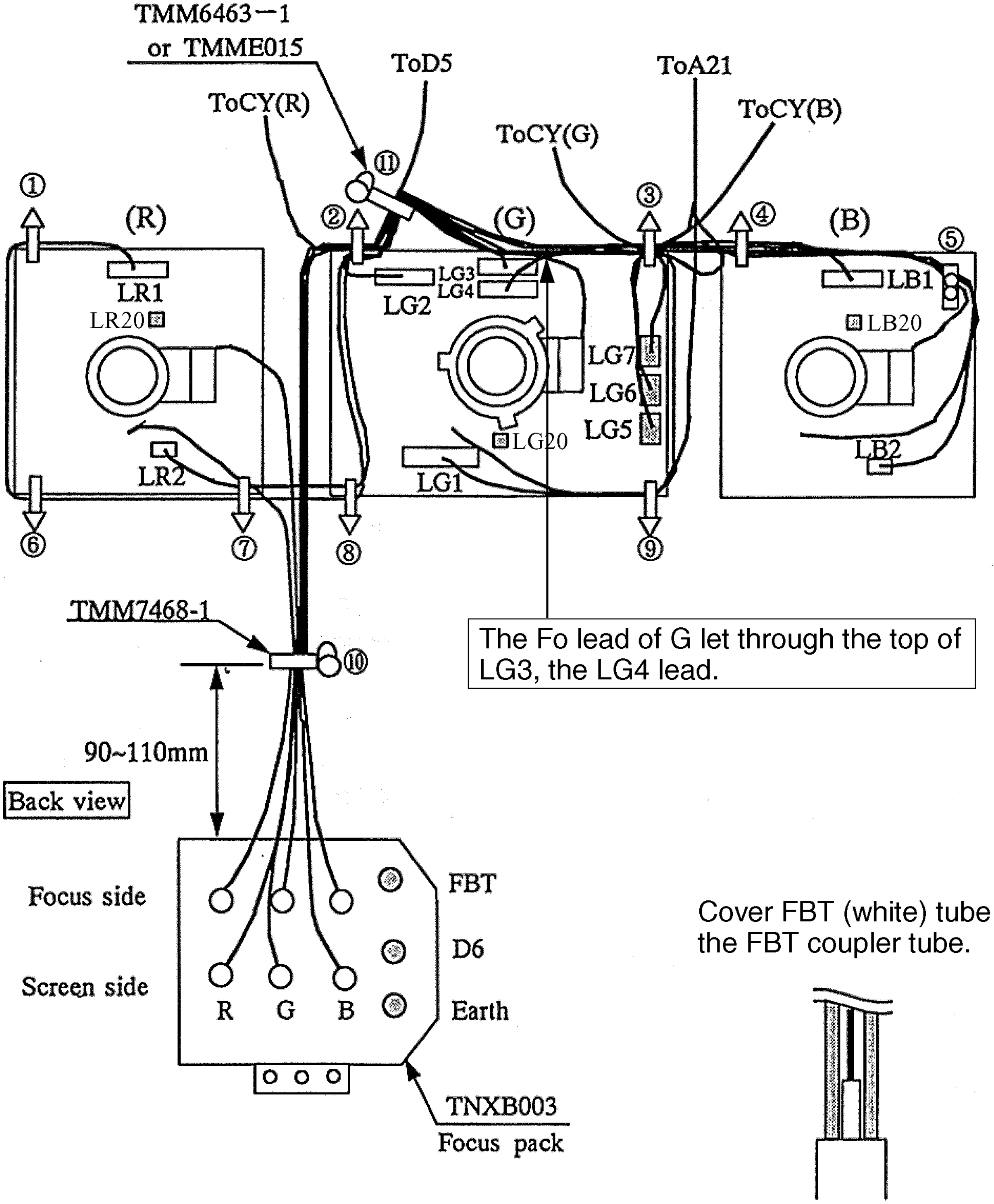
11.1. Location of Lead Wiring (1)


Speaker
(Tweeter) R
Speaker
(Sqawker) R
Speaker
(Tweeter) L
Speaker
(Sqawker) L
To A22
To A23

11.2. Location of Lead Wiring (2)


G1~A7,H3
G2~A49
G-Board
KA-Board
K1~P2
K2~A8
K-Board

11.3. Location of Lead Wiring (3)


TMM6463－1
or TMME015
ToD5
ToA21
ToCY(R)
ToCY(B)
ToCY(G)
⑪
①
②
③
④
⑤
(R)
(G)
(B)
LR1
LR20
LG3
LG4
LG2
LB1
LB20
LG7
LG6
LG5
LG20
LR2
LG1
LB2
⑥
⑦
⑧
⑨
TMM7468-1
⑩
90~110mm
Back view
Focus side
Screen side
R
G
B
FBT
D6
Earth
TNXB003
Focus pack

The Fo lead of G let through the top of LG3, the LG4 lead.

Cover FBT (white) tube to the FBT coupler tube.

(Attention)
The lead line doesn't come within 5 millimeters of the neighborhood of the focus block,too.

INSERTION OF CONNECTOR

LR1, LR2, LG1, LG2, LG3, LG4, LG5, LG6, LG7, LB1, LB2,
LR20, LG20, LB20

CLAMP DOUBLE CLAMP : ◎

CLAMPER WIRES	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
CY(R)		●	●								●									
CY(G)			◎																	
CY(B)			◎																	
Focus(R)										●										
Focus(G)		●								●	●									
Focus(B)		●	●	●	●					●	●									
Screen(R)							●			●										
Screen(G)		●	●						●	●	●									
Screen(B)		●	●	●	●					●	●									
LR1~LG3	●	●				●	●	●			●									
LR2~A21		●	●				●	●			●									
LG1~A21									●											
LG4~LB1			●	●																
LG2~D5		●									●									
LB2				●	●															

NOTICE FOR WORE DRESSING

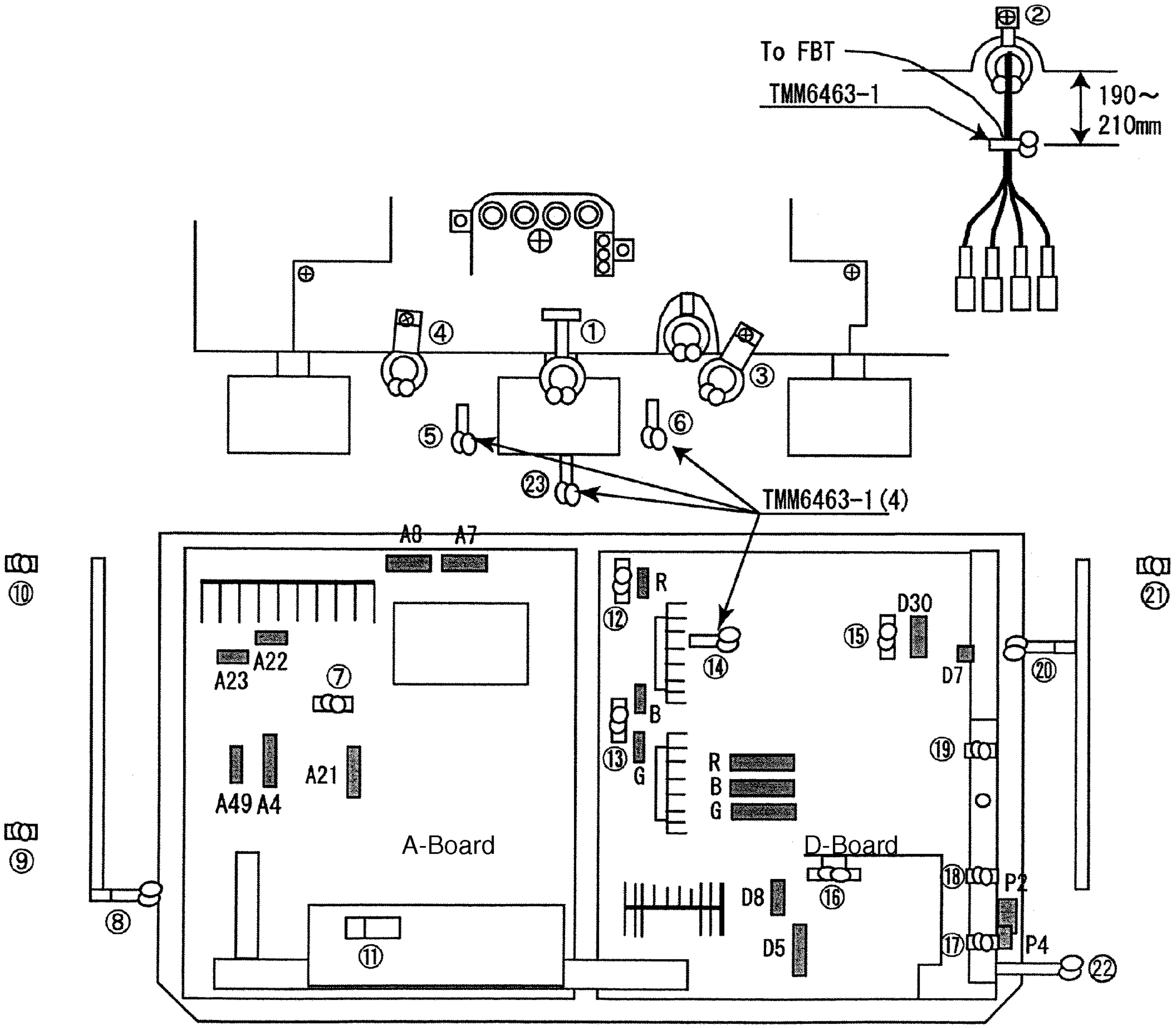
1. Confirm that the lead line isn’t hitting the metallic part of the neck print after CRT neck print (R, G, B) insertion.
2. It decides to be permitted to insert the lead line (R, G, B) of the VM coil wherever of LG5, LG6, LG7 of the LG print.
3. It decides to be permitted to insert G, B of the DY lead in either.
4. Keep the Fo lead of B clear of components of the LB-Board and IC2301 heat sink of the A-Board.

11.4. Location of Lead Wiring (4)

The Anode Lead

1. It inserts Anode lead tip in the back to FBT (the fly background transformer), and it makes turn on the right and it locks it. (Three insertion positions are free).
2. Secure a safe space distance from the circumference part by equal to or more than 10 millimeters.

Anobe Lead Clamper


②
To FBT
TMM6463-1
190~
210mm
①
④
③
⑤
⑥
㉓
TMM6463-1 (4)
A8
A7
⑩
㉑
A22
A23
⑦
A49
A4
A21
A-Board
⑨
⑧
⑪
R
⑫
⑭
D30
⑮
D7
⑳
B
⑬
G
R
B
G
⑲
D-Board
⑱
P2
⑯
D8
D5
⑰
P4
㉒

INSERTION OF CONNECTOR

A6, A7, A21, A22, A23, A49, Anode distributor (R, G, B, FBT), D8, D5, DY (R, G, B), CY (R, G, B), D30, P1, P2, P4, Focus Pack (R)

CLAMP DOUBLE CLAMP : ◎

CLAMPER WIRES	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓
A22~RSP							◎	●	●	●													
B~DY	●		●			◎								●		●							
B~CY	●			◎	◎								●										
G~DY	●		●			◎								●		●							
G~CY	●			◎	◎								●										
R~DY	●		●			◎								●		●							
R~CY	●			◎	◎							●											●
D8~Distributor	●													●		●							
G2~A49								●	●	●													
A6~K2							●	●	●	●													
A2~LB2, LG1, LR2							◎																
A23~LSP	●		●		●	●	◎													●	●		
LG2~D5				●	◎	●								●		●							
FBT~Focus pack	●													●		●							
D30~Focus pack	●													●	●	●							
K1~P2																	●	●	●	●	●		
Cabinet earth~P4																	●	●	●	●			
AC cord																						●	
G1~A7, H3							●	●	●	●	●												
D7~DG	●		●		●						●				●								

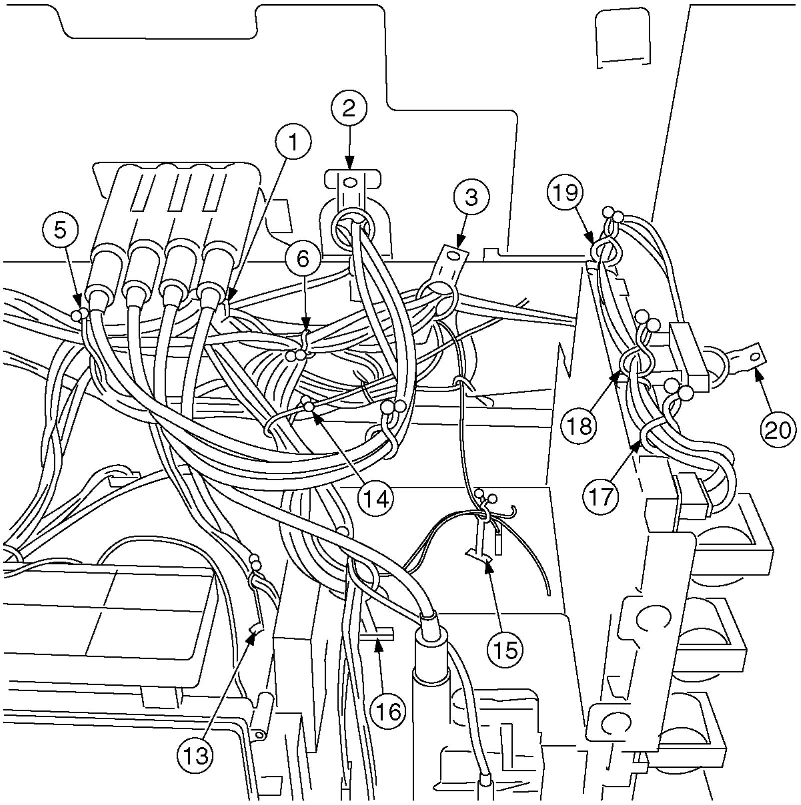
A7 only

H3 only

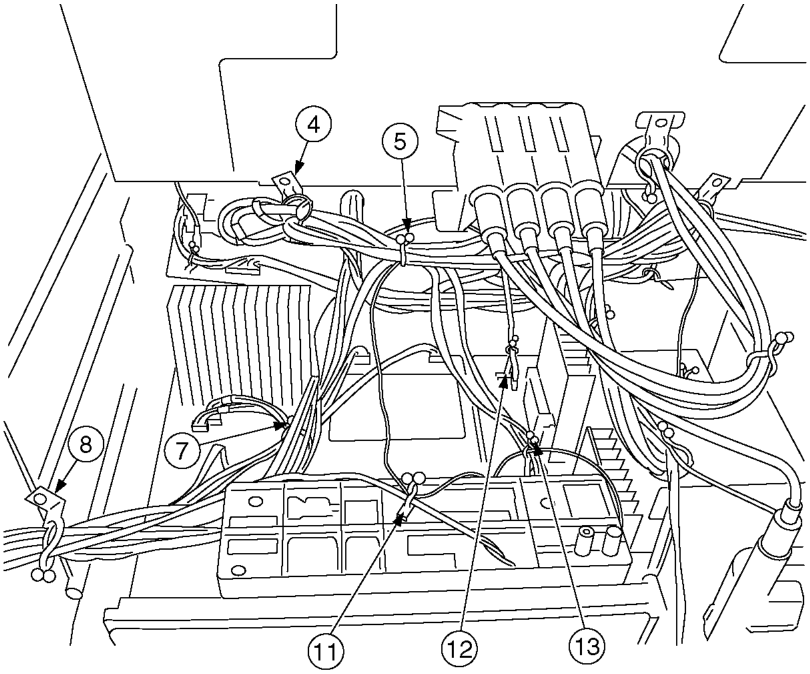
NOTICE FOR WIRE DRESSING

1. After insert R, G, B on CRT-print, confirm that wire should not touch to material parts of CRT-print.

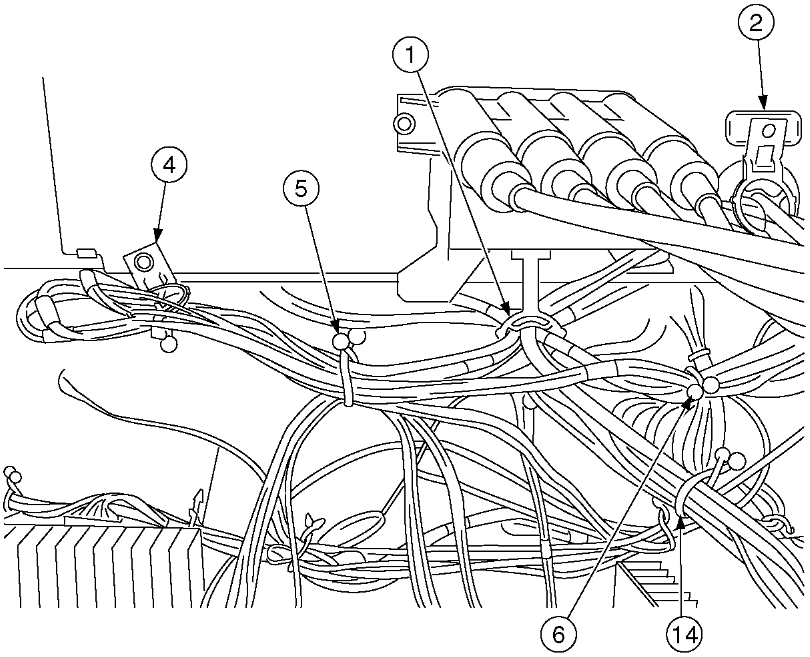
11.5. Location of Lead Wiring (5)


2
1
3
19
5
6
18
20
14
17
15
16
13

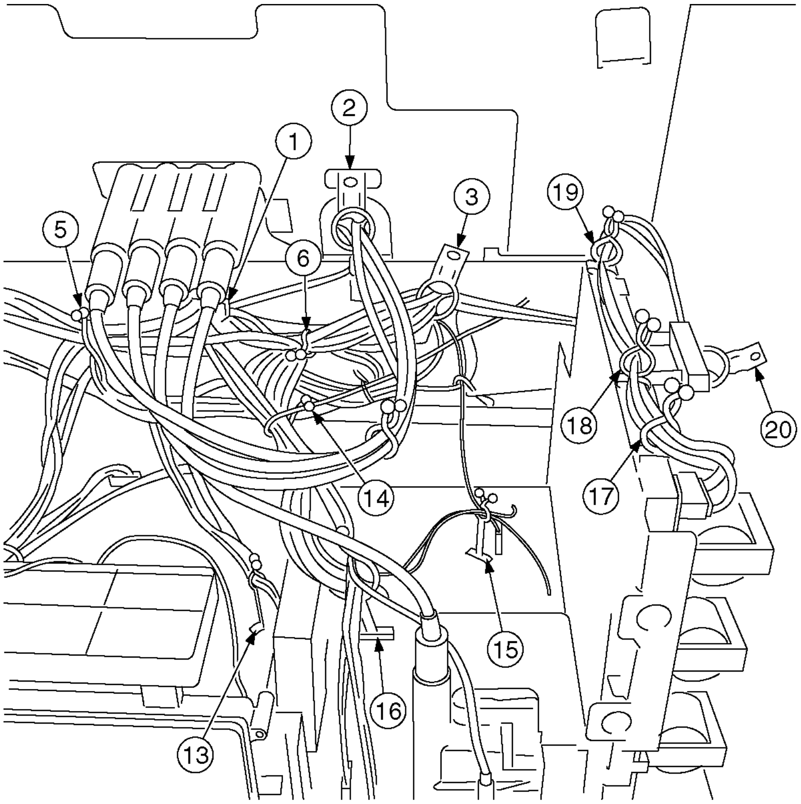
11.6. Location of Lead Wiring (6)

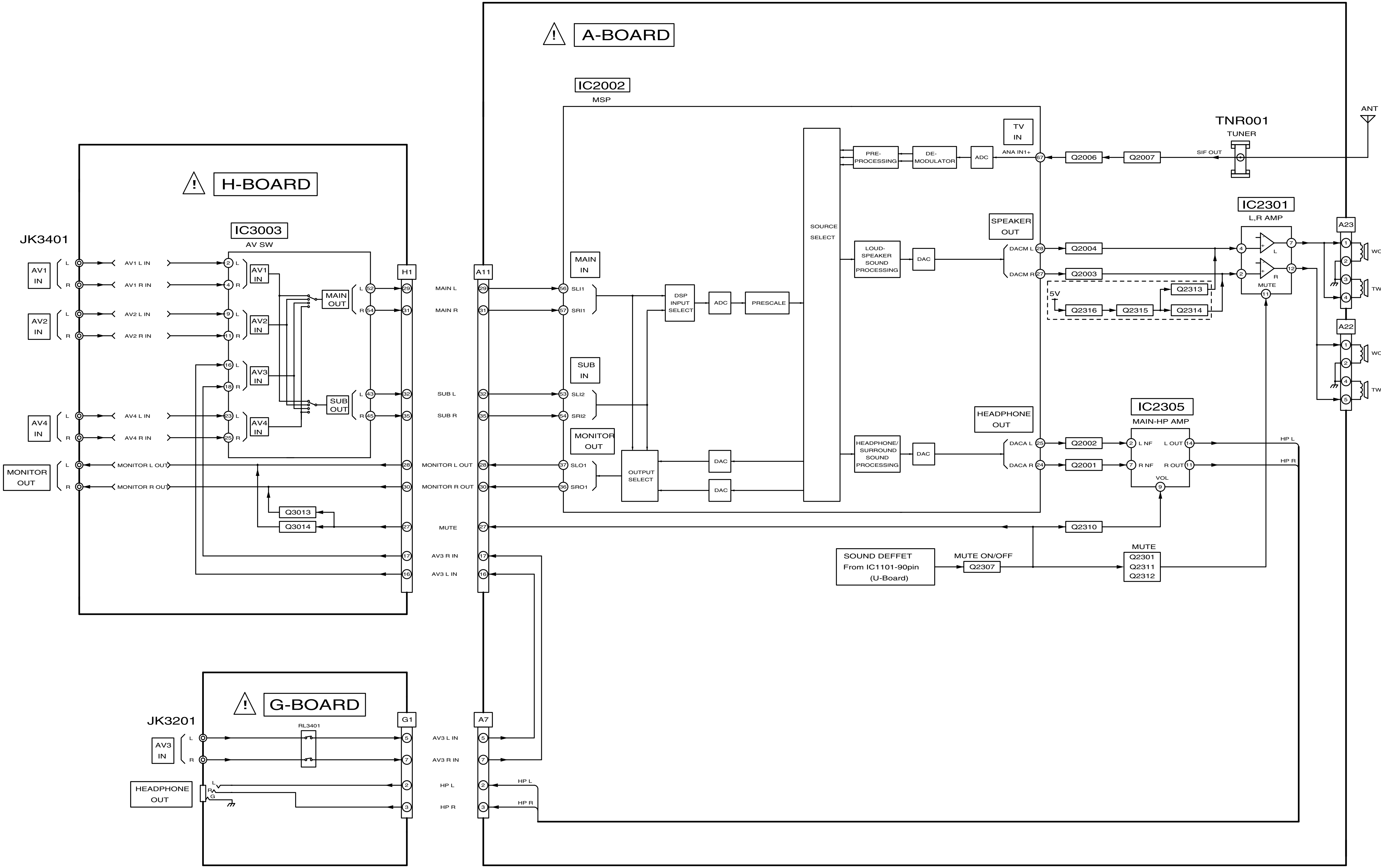

4
5
8
7
11
12
13

11.7. Location of Lead Wiring (7)



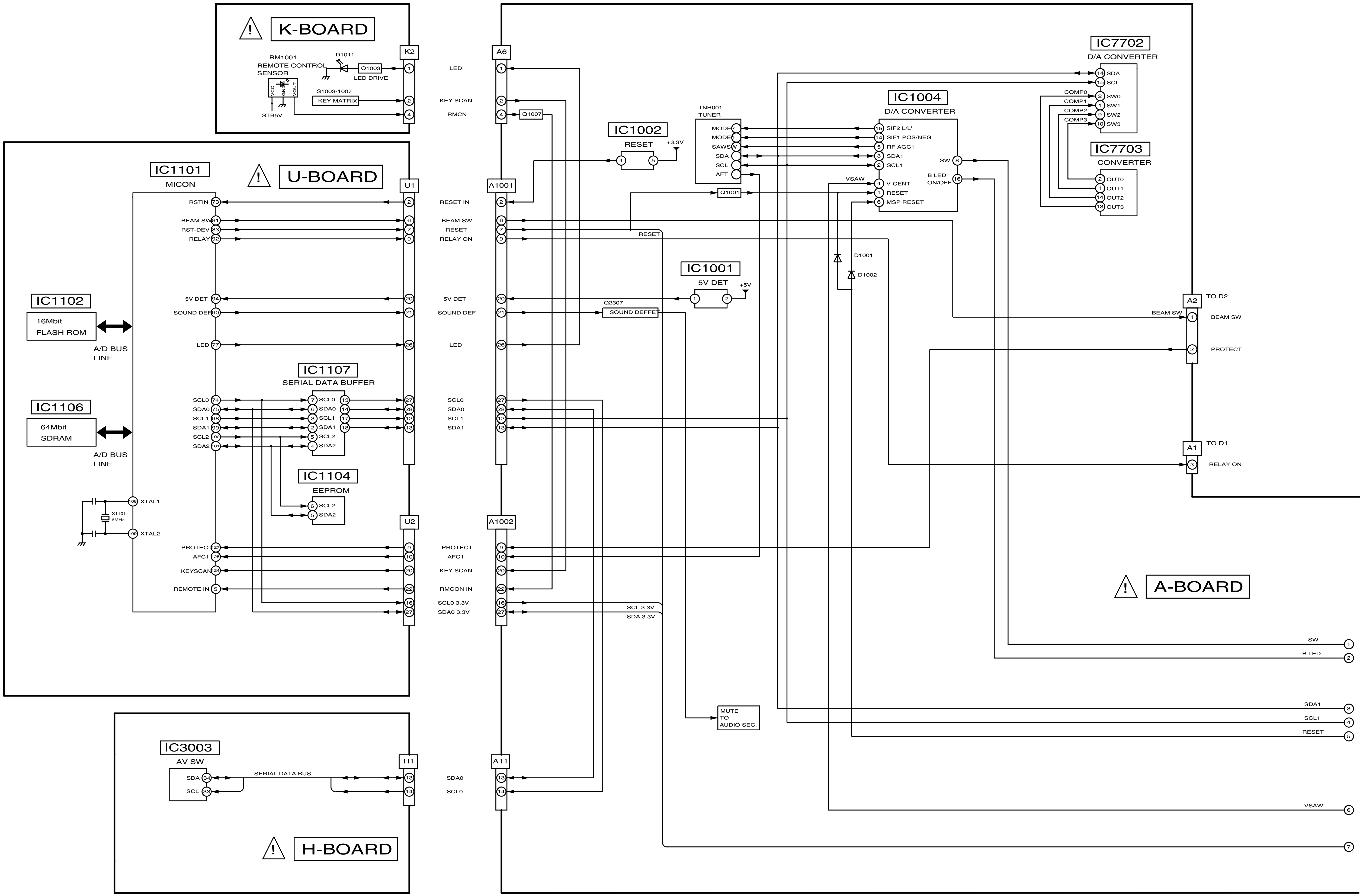
11.8. Location of Lead Wiring (8)


②
①
③
⑲
⑤
⑥
⑱
⑳
⑭
⑰
⑮
⑯
⑬


A-BOARD
H-BOARD
G-BOARD
IC2002
MSP
TV IN
ANA IN1+
67
Q2006
Q2007
SIF OUT
TNR001
TUNER
ANT
PRE-PROCESSING
DE-MODULATOR
ADC
SOURCE SELECT
LOUD-SPEAKER SOUND PROCESSING
DAC
SPEAKER OUT
DACM L
28
DACM R
27
Q2004
Q2003
IC2301
L,R AMP
MUTE
A23
WOOFER (L)
TWEETER (L)
A22
WOOFER (R)
TWEETER (R)
5V
Q2313
Q2316
Q2315
Q2314
MAIN IN
SLI1
SRI1
DSP INPUT SELECT
ADC
PRESCALE
SUB IN
SLI2
SRI2
MONITOR OUT
SLO1
SRO1
OUTPUT SELECT
DAC
HEADPHONE/ SURROUND SOUND PROCESSING
HEADPHONE OUT
DACA L
DACA R
Q2002
Q2001
IC2305
MAIN-HP AMP
L NF
R NF
L OUT
R OUT
VOL
HP L
HP R
Q2310
SOUND DEFFET From IC1101-90pin (U-Board)
MUTE ON/OFF
Q2307
MUTE
Q2301
Q2311
Q2312
JK3401
AV1 IN
AV1 L IN
AV1 R IN
AV2 IN
AV2 L IN
AV2 R IN
AV4 IN
AV4 L IN
AV4 R IN
MONITOR OUT
MONITOR L OUT
MONITOR R OUT
IC3003
AV SW
AV1 IN
AV2 IN
AV3 IN
AV4 IN
MAIN OUT
SUB OUT
Q3013
Q3014
H1
A11
MAIN L
MAIN R
SUB L
SUB R
MONITOR L OUT
MONITOR R OUT
MUTE
AV3 R IN
AV3 L IN
JK3201
AV3 IN
RL3401
HEADPHONE OUT
G1
A7
AV3 L IN
AV3 R IN
HP L
HP R

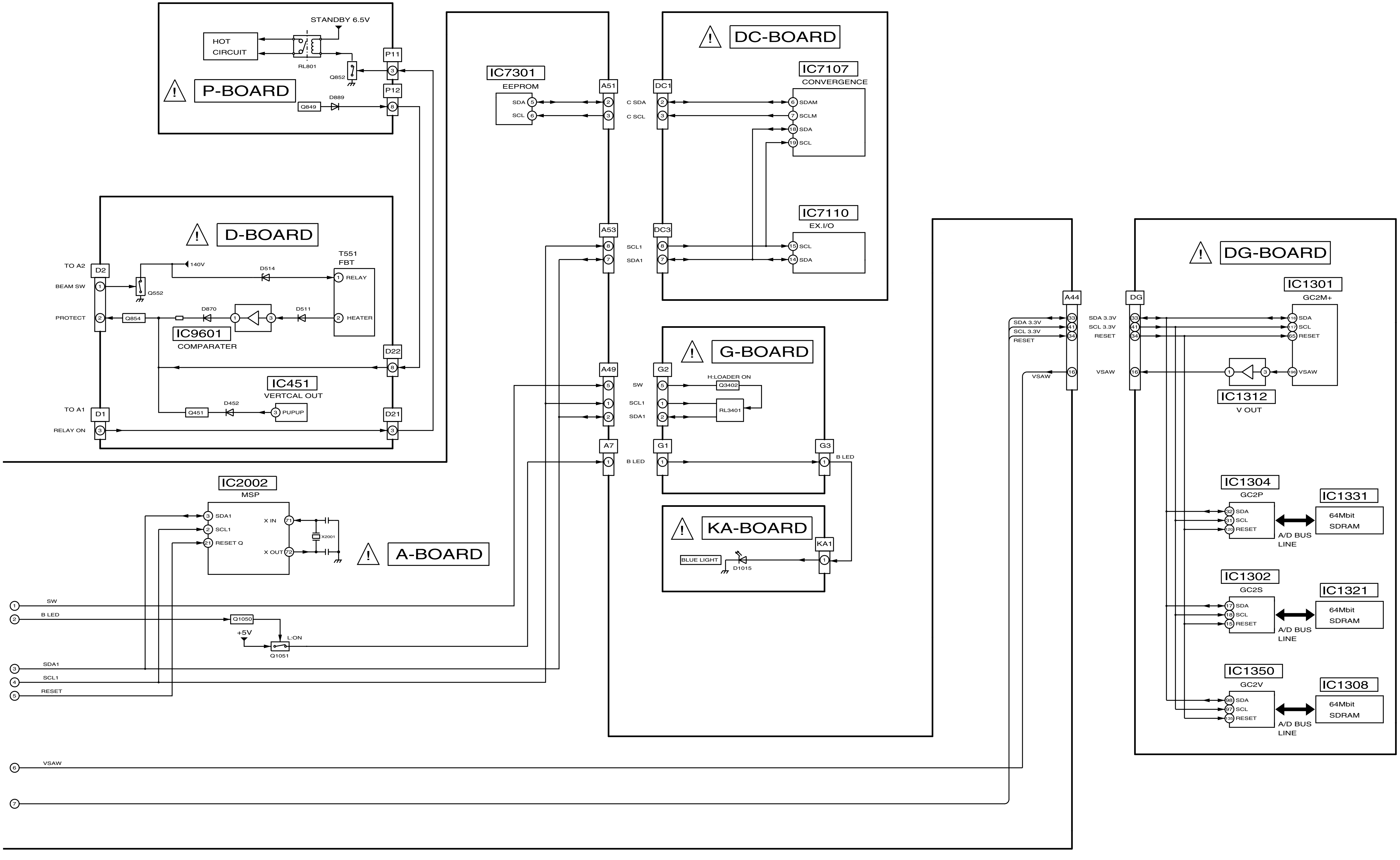
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Audio Block Diagram

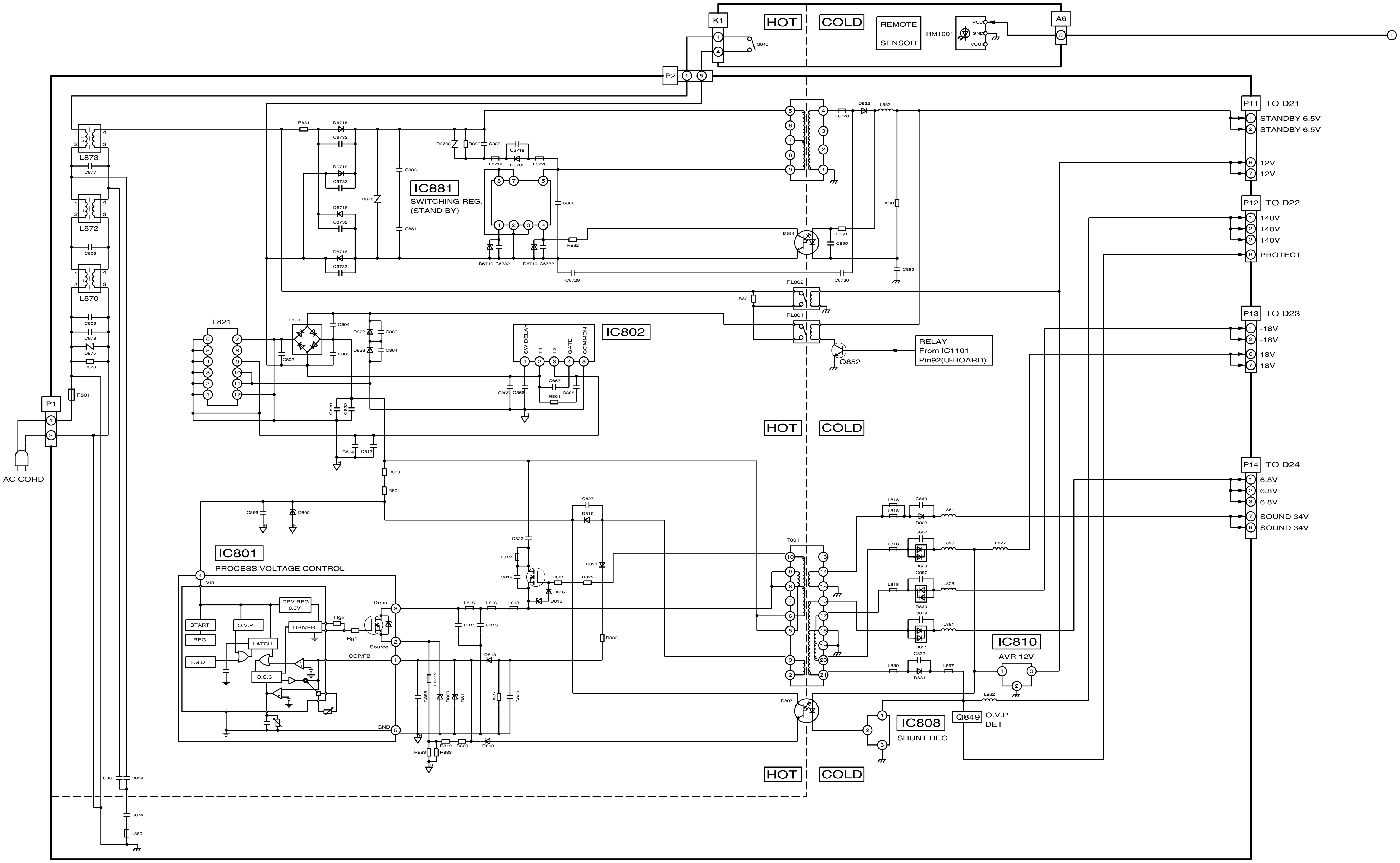
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Audio Block Diagram

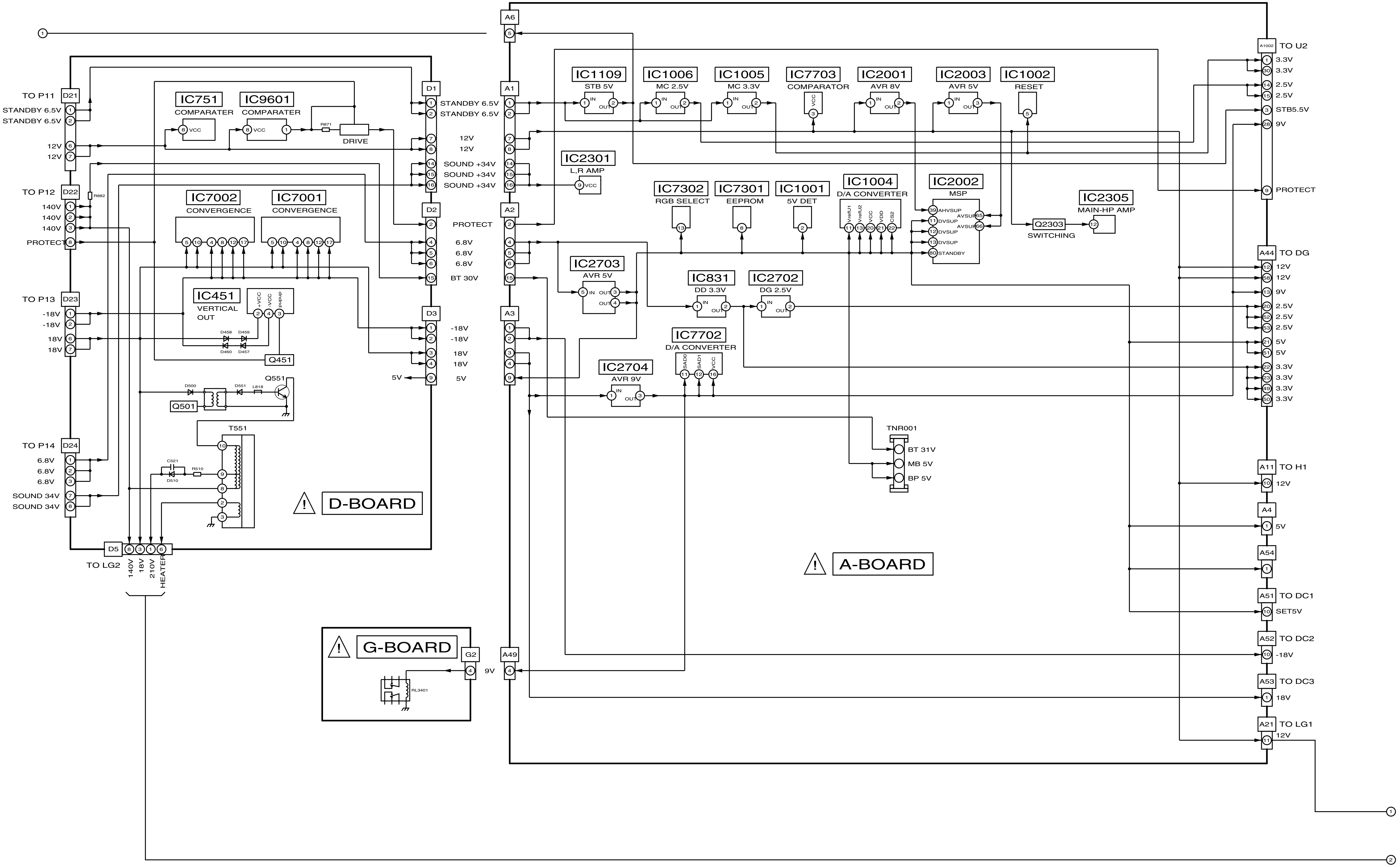

K-BOARD
RM1001
REMOTE CONTROL
SENSOR
VCC
GND
VOUT
STB5V
D1011
Q1003
LED DRIVE
S1003-1007
KEY MATRIX
K2
LED
KEY SCAN
RMCN
A6
Q1007
U-BOARD
IC1101
MICON
RSTIN
BEAM SW
RST-DEV
RELAY
5V DET
SOUND DEF
LED
SCL0
SDA0
SCL1
SDA1
SCL2
SDA2
XTAL1
XTAL2
X1101
6MHz
PROTECT
AFC1
KEYSCAN
REMOTE IN
IC1102
16Mbit
FLASH ROM
A/D BUS
LINE
IC1106
64Mbit
SDRAM
A/D BUS
LINE
IC1107
SERIAL DATA BUFFER
IC1104
EEPROM
U1
U2
RESET IN
BEAM SW
RESET
RELAY ON
5V DET
SOUND DEF
LED
SCL0
SDA0
SCL1
SDA1
PROTECT
AFC1
KEY SCAN
RMCON IN
SCL0 3.3V
SDA0 3.3V
A1001
A1002
H-BOARD
IC3003
AV SW
SDA
SCL
SERIAL DATA BUS
H1
SDA0
SCL0
A11
IC1002
RESET
+3.3V
TNR001
TUNER
MODE
MODE
SAWSW
SDA
SCL
AFT
Q1001
IC1004
D/A CONVERTER
SIF2 L/L'
SIF1 POS/NEG
RF AGC1
SDA1
SCL1
V-CENT
RESET
MSP RESET
VSAW
SW
B LED
ON/OFF
IC7702
D/A CONVERTER
SDA
SCL
COMP0
COMP1
COMP2
COMP3
SW0
SW1
SW2
SW3
IC7703
CONVERTER
OUT0
OUT1
OUT2
OUT3
D1001
D1002
IC1001
5V DET
+5V
Q2307
SOUND DEFFECT
RESET
TO D2
A2
BEAM SW
PROTECT
TO D1
A1
RELAY ON
SCL 3.3V
SDA 3.3V
MUTE
TO
AUDIO SEC.
A-BOARD
SW
B LED
SDA1
SCL1
RESET
VSAW

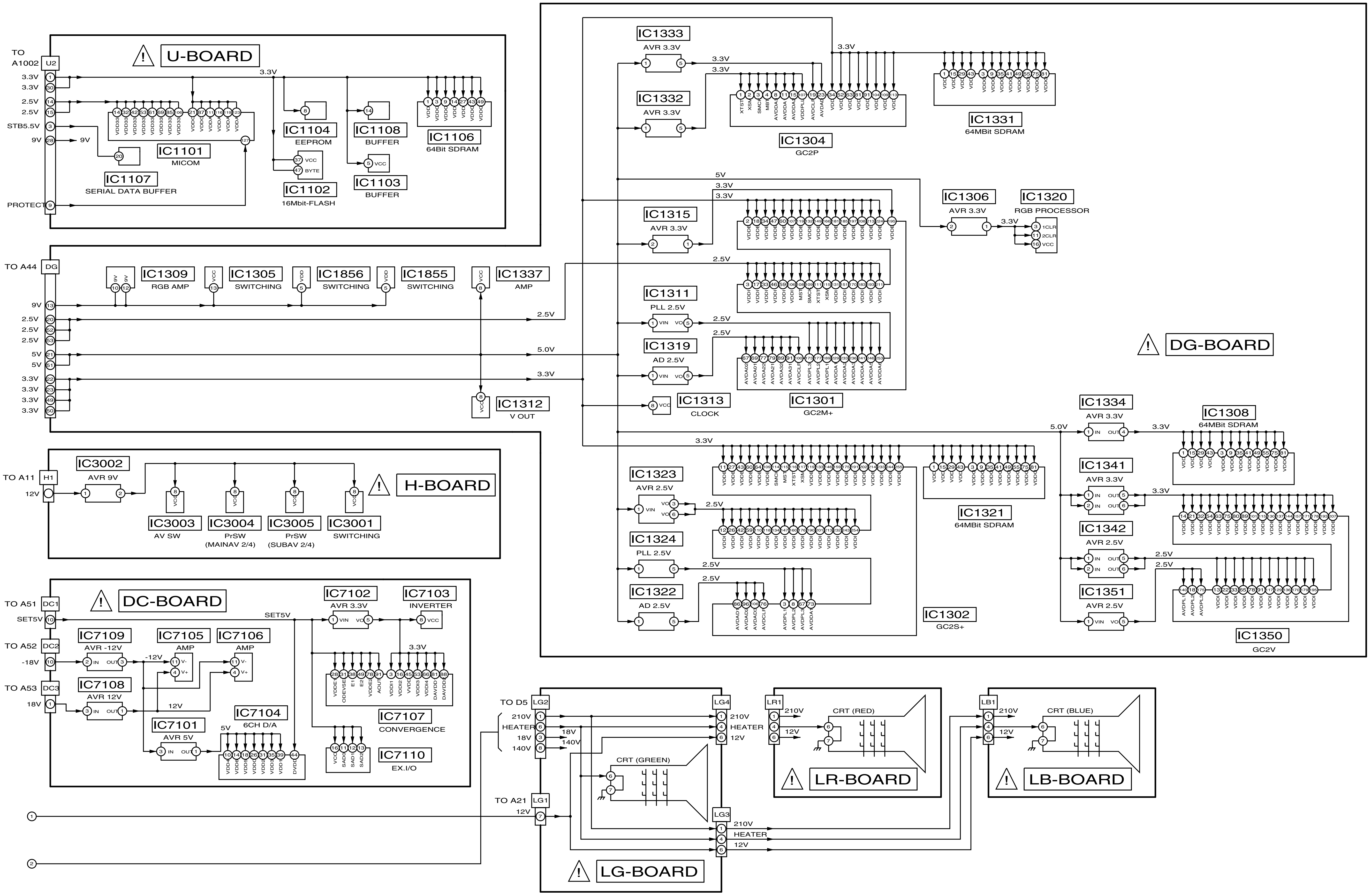
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Control Block Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Control Block Diagram


P-BOARD
STANDBY 6.5V
HOT CIRCUIT
RL801
Q852
P11
P12
D889
Q849
D-BOARD
TO A2
D2
BEAM SW
140V
Q552
D514
T551
FBT
RELAY
PROTECT
Q854
D870
D511
HEATER
IC9601
COMPARATER
D22
IC451
VERTCAL OUT
TO A1
D1
D452
Q451
PUPUP
D21
RELAY ON
IC7301
EEPROM
SDA
SCL
A51
C SDA
C SCL
DC-BOARD
DC1
IC7107
CONVERGENCE
SDAM
SCLM
SDA
SCL
A53
DC3
SCL1
SDA1
IC7110
EX.I/O
G-BOARD
A49
G2
SW
SCL1
SDA1
H:LOADER ON
Q3402
RL3401
A7
G1
G3
B LED
KA-BOARD
KA1
BLUE LIGHT
D1015
IC2002
MSP
SDA1
SCL1
RESET Q
X IN
X OUT
X2001
A-BOARD
A44
SDA 3.3V
SCL 3.3V
RESET
VSAW
DG
DG-BOARD
IC1301
GC2M+
SDA
SCL
RESET
VSAW
IC1312
V OUT
IC1304
GC2P
IC1331
64Mbit SDRAM
A/D BUS LINE
IC1302
GC2S
IC1321
64Mbit SDRAM
A/D BUS LINE
IC1350
GC2V
IC1308
64Mbit SDRAM
A/D BUS LINE
① SW
② B LED
Q1050
+5V
L:ON
Q1051
③ SDA1
④ SCL1
⑤ RESET
⑥ VSAW
⑦

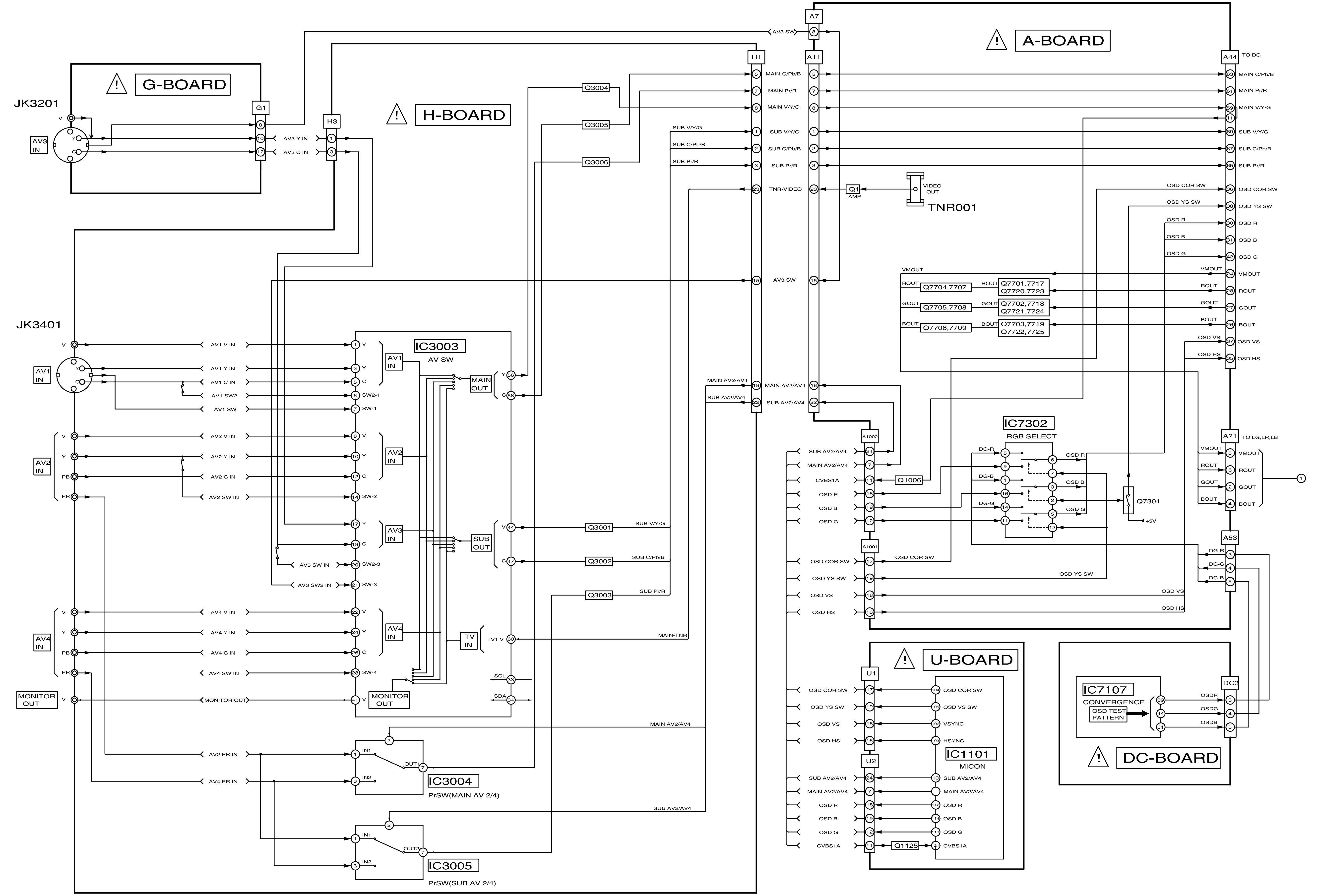

K1
HOT
COLD
REMOTE SENSOR
RM1001
VCC
GND
VOUT
A6
S840
P2
P11 TO D21
STANDBY 6.5V
STANDBY 6.5V
12V
12V
P12 TO D22
140V
140V
140V
PROTECT
P13 TO D23
-18V
-18V
18V
18V
P14 TO D24
6.8V
6.8V
6.8V
SOUND 34V
SOUND 34V
L873
L872
L870
C877
C806
C805
C878
D875
R870
F801
P1
AC CORD
R831
D6718
C6732
D6708
R883
C888
C6718
L6719
D6705
L6720
C883
D876
C881
IC881
SWITCHING REG.
(STAND BY)
C886
D6710
R882
C6729
C6730
D884
R891
C895
R890
D822
L883
L6720
RL802
RL801
R801
RELAY
From IC1101
Pin92(U-BOARD)
Q852
L821
D801
C804
C803
C802
D822
C863
D823
C864
IC802
SW DELAY
T1
T2
GATE
COMMON
C865
C866
C667
C868
R861
C820
C822
C814
C812
R803
R804
C866
D805
IC801
PROCESS VOLTAGE CONTROL
Vin
START
REG
O.V.P
LATCH
T.S.D
O.S.C
DRV.REG
=8.3V
DRIVER
Rg2
Rg1
Drain
Source
OCP/FB
GND
C827
D819
C823
L812
C819
R821
R822
D816
D815
D821
L815
L816
L818
C815
C813
R836
D813
C888
L6719
D809
D811
R837
C829
R883
R819
R820
D813
T801
L818
C860
D823
L861
C667
D829
L826
L827
D839
L828
C679
D851
L891
C832
D831
L830
L857
IC810
AVR 12V
L862
Q849
O.V.P
DET
IC808
SHUNT REG.
D807
C807
C809
C874
L880


D-BOARD
A-BOARD
G-BOARD
TO P11
D21
STANDBY 6.5V
STANDBY 6.5V
12V
12V
TO P12
D22
R882
140V
140V
140V
PROTECT
TO P13
D23
-18V
-18V
18V
18V
TO P14
D24
6.8V
6.8V
6.8V
SOUND 34V
SOUND 34V
D5
TO LG2
140V
18V
210V
HEATER
IC751
COMPARATER
IC9601
COMPARATER
VCC
R871
DRIVE
IC7002
CONVERGENCE
IC7001
CONVERGENCE
IC451
VERTICAL
OUT
+VCC
-VCC
pupup
D458
D459
D460
D457
Q451
D500
D551
L818
Q551
Q501
T551
C521
R510
D510
RL3401
G2
9V
D1
STANDBY 6.5V
STANDBY 6.5V
12V
12V
SOUND +34V
SOUND +34V
SOUND +34V
D2
PROTECT
6.8V
6.8V
6.8V
BT 30V
D3
-18V
-18V
18V
18V
5V
5V
A6
A1
A2
A3
A49
IC1109
STB 5V
IC1006
MC 2.5V
IC1005
MC 3.3V
IC7703
COMPARATOR
IC2001
AVR 8V
IC2003
AVR 5V
IC1002
RESET
IN
OUT
IC2301
L,R AMP
IC7302
RGB SELECT
IC7301
EEPROM
IC1001
5V DET
IC1004
D/A CONVERTER
VrefU1
VrefU2
VCC
VDD
CS2
IC2002
MSP
AHVSUP
DVSUP
DVSUP
DVSUP
STANDBY
AVSUP
AVSUP
IC2305
MAIN-HP AMP
Q2303
SWITCHING
IC2703
AVR 5V
IC831
DD 3.3V
IC2702
DG 2.5V
IC7702
D/A CONVERTER
SAD0
SAD1
IC2704
AVR 9V
TNR001
BT 31V
MB 5V
BP 5V
A1002
TO U2
3.3V
3.3V
2.5V
2.5V
STB5.5V
9V
PROTECT
A44
TO DG
12V
12V
9V
2.5V
2.5V
2.5V
5V
5V
3.3V
3.3V
3.3V
3.3V
A11
TO H1
12V
A4
5V
A54
A51
TO DC1
SET5V
A52
TO DC2
-18V
A53
TO DC3
18V
A21
TO LG1
12V
①
②


U-BOARD
TO A1002
U2
3.3V
2.5V
STB5.5V
9V
PROTECT
IC1101
MICOM
IC1107
SERIAL DATA BUFFER
IC1104
EEPROM
IC1102
16Mbit-FLASH
IC1108
BUFFER
IC1103
BUFFER
IC1106
64Bit SDRAM
TO A44
DG
IC1309
RGB AMP
IC1305
SWITCHING
IC1856
SWITCHING
IC1855
SWITCHING
IC1337
AMP
IC1312
V OUT
5V
5.0V
H-BOARD
TO A11
H1
12V
IC3002
AVR 9V
IC3003
AV SW
IC3004
PrSW
(MAINAV 2/4)
IC3005
PrSW
(SUBAV 2/4)
IC3001
SWITCHING
DC-BOARD
TO A51
DC1
SET5V
TO A52
DC2
-18V
TO A53
DC3
18V
IC7109
AVR -12V
-12V
IC7108
AVR 12V
IC7105
AMP
IC7106
AMP
IC7101
AVR 5V
IC7104
6CH D/A
IC7102
AVR 3.3V
IC7103
INVERTER
IC7107
CONVERGENCE
IC7110
EX.I/O
DG-BOARD
IC1333
AVR 3.3V
IC1332
AVR 3.3V
IC1304
GC2P
IC1331
64MBit SDRAM
IC1306
AVR 3.3V
IC1320
RGB PROCESSOR
IC1315
AVR 3.3V
IC1311
PLL 2.5V
IC1319
AD 2.5V
IC1313
CLOCK
IC1301
GC2M+
IC1334
AVR 3.3V
IC1308
64MBit SDRAM
IC1341
AVR 3.3V
IC1342
AVR 2.5V
IC1351
AVR 2.5V
IC1350
GC2V
IC1323
AVR 2.5V
IC1324
PLL 2.5V
IC1322
AD 2.5V
IC1321
64MBit SDRAM
IC1302
GC2S+
TO D5
LG2
210V
HEATER
18V
140V
TO A21
LG1
LG4
LG3
CRT (GREEN)
LG-BOARD
LR1
CRT (RED)
LR-BOARD
LB1
CRT (BLUE)
LB-BOARD
①
②

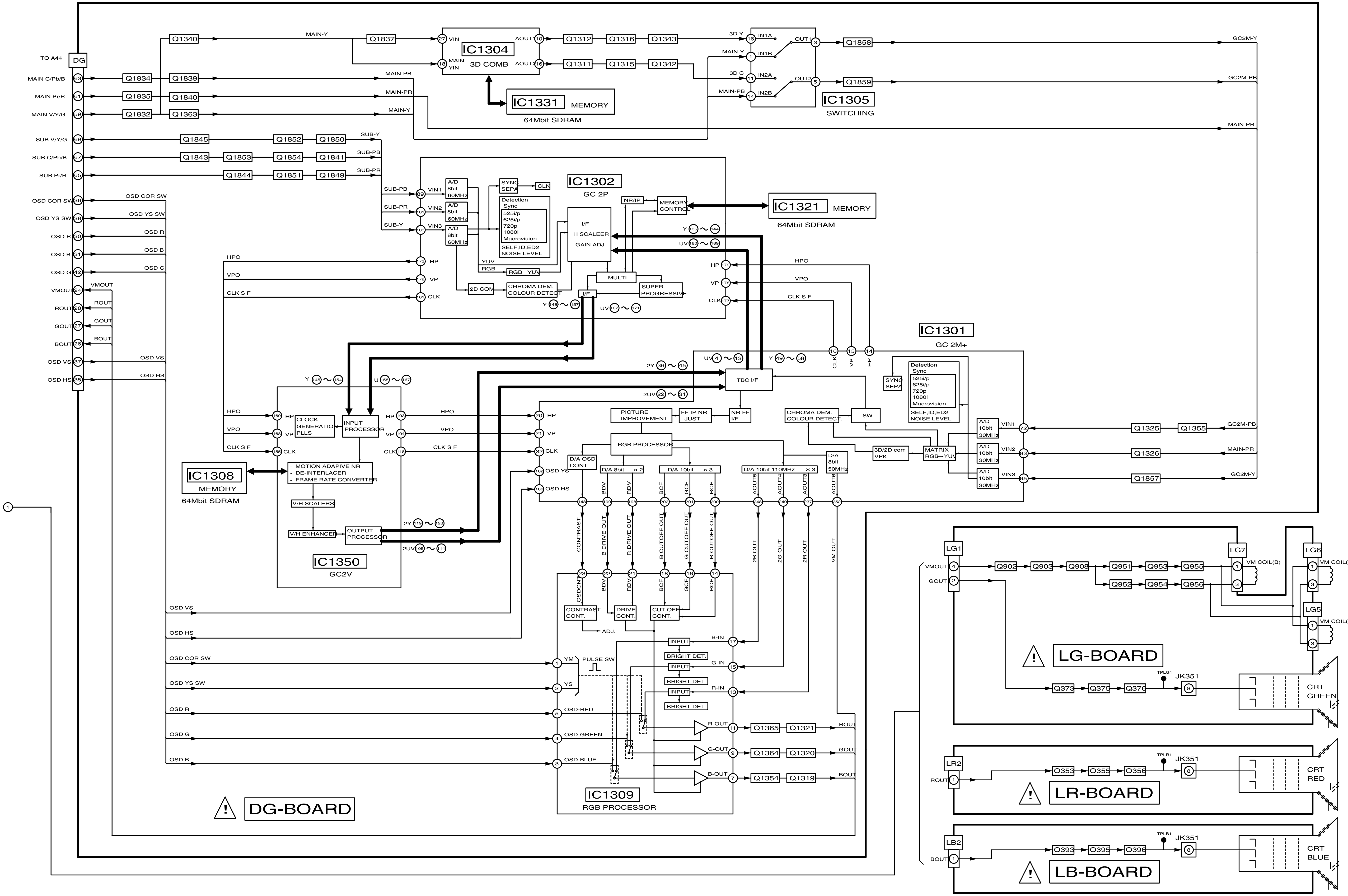
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Power Block Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Power Block Diagram


G-BOARD
JK3201
AV3 IN
G1
AV3 Y IN
AV3 C IN
H3
H-BOARD
A-BOARD
A7
AV3 SW
H1
A11
A44
TO DG
MAIN C/Pb/B
MAIN Pr/R
MAIN V/Y/G
SUB V/Y/G
SUB C/Pb/B
SUB Pr/R
Q3004
Q3005
Q3006
TNR-VIDEO
Q1
AMP
VIDEO OUT
TNR001
OSD COR SW
OSD YS SW
OSD R
OSD B
OSD G
VMOUT
ROUT
GOUT
BOUT
OSD VS
OSD HS
Q7701,7717
Q7720,7723
Q7702,7718
Q7721,7724
Q7703,7719
Q7722,7725
Q7704,7707
Q7705,7708
Q7706,7709
JK3401
AV1 IN
AV1 V IN
AV1 Y IN
AV1 C IN
AV1 SW2
AV1 SW
AV2 IN
AV2 V IN
AV2 Y IN
AV2 C IN
AV2 SW IN
AV3 SW IN
AV3 SW2 IN
AV4 IN
AV4 V IN
AV4 Y IN
AV4 C IN
AV4 SW IN
MONITOR OUT
IC3003
AV SW
MAIN OUT
SUB OUT
TV IN
TV1 V
SCL
SDA
Q3001
Q3002
Q3003
MAIN-TNR
MAIN AV2/AV4
SUB AV2/AV4
AV2 PR IN
AV4 PR IN
IC3004
PrSW(MAIN AV 2/4)
IC3005
PrSW(SUB AV 2/4)
IN1
IN2
OUT1
OUT2
A1002
A1001
CVBS1A
Q1006
IC7302
RGB SELECT
DG-R
DG-B
DG-G
Q7301
+5V
A21
TO LG,LR,LB
A53
U-BOARD
U1
U2
IC1101
MICON
OSD VS SW
VSYNC
HSYNC
Q1125
DC-BOARD
DC3
IC7107
CONVERGENCE
OSD TEST PATTERN
OSDR
OSDG
OSDB

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Video Block Diagram

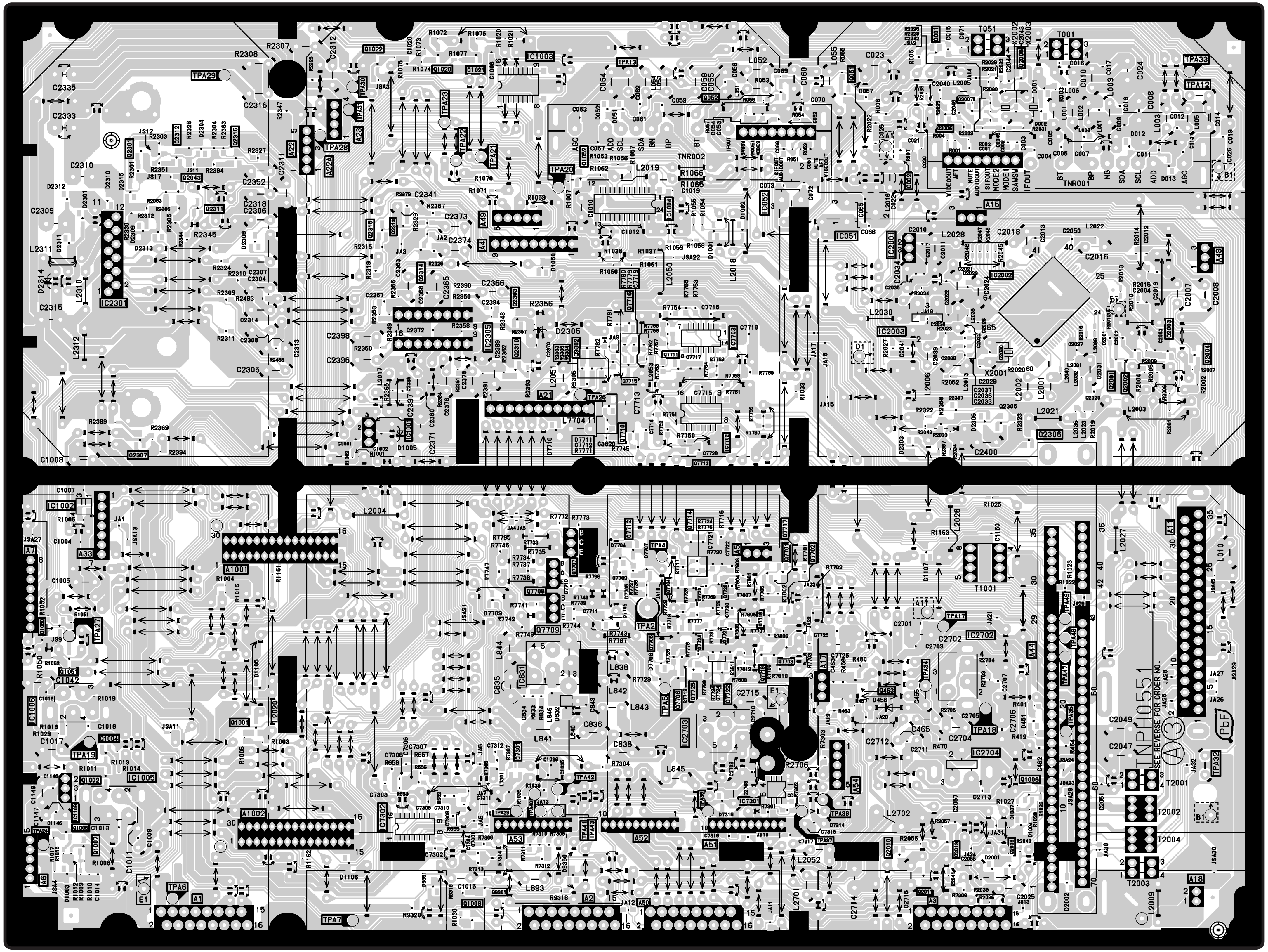
TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Video Block Diagram


TO A44
DG
MAIN C/Pb/B
MAIN Pr/R
MAIN V/Y/G
SUB V/Y/G
SUB C/Pb/B
SUB Pr/R
OSD COR SW
OSD YS SW
OSD R
OSD B
OSD G
VMOUT
ROUT
GOUT
BOUT
OSD VS
OSD HS
Q1340
MAIN-Y
Q1837
IC1304
3D COMB
VIN
MAIN YIN
AOUT1
AOUT2
IC1331
MEMORY
64Mbit SDRAM
Q1834
Q1839
Q1835
Q1840
Q1832
Q1363
MAIN-PB
MAIN-PR
Q1312
Q1316
Q1343
Q1311
Q1315
Q1342
3D Y
3D C
IN1A
IN1B
IN2A
IN2B
OUT1
OUT2
IC1305
SWITCHING
Q1858
Q1859
GC2M-Y
GC2M-PB
MAIN-PR
Q1845
Q1852
Q1850
SUB-Y
Q1843
Q1853
Q1854
Q1841
SUB-PB
Q1844
Q1851
Q1849
SUB-PR
IC1302
GC 2P
A/D 8bit 60MHz
VIN1
VIN2
VIN3
SYNC SEPA
CLK
Detection Sync
525i/p
625i/p
720p
1080i
Macrovision
SELF,ID,ED2
NOISE LEVEL
YUV
RGB
2D COM
CHROMA DEM. COLOUR DETECT
NR/IP
MEMORY CONTROL
I/F
H SCALEER
GAIN ADJ
MULTI
SUPER PROGRESSIVE
IC1321
MEMORY
64Mbit SDRAM
HPO
VPO
CLK S F
HP
VP
CLK
IC1301
GC 2M+
TBC I/F
2Y
2UV
NR FF I/F
FF IP NR JUST
PICTURE IMPROVEMENT
RGB PROCESSOR
D/A OSD CONT
D/A 8bit ×2
D/A 10bit ×3
D/A 10bit 110MHz ×3
D/A 8bit 50MHz
CHROMA DEM. COLOUR DETECT
SW
3D/2D com VPK
MATRIX RGB→YUV
A/D 10bit 30MHz
Q1325
Q1355
Q1326
Q1857
GC2M-PB
MAIN-PR
GC2M-Y
OSD YS
OSD HS
BDV
RDV
BCF
GCF
RCF
AOUT5
AOUT4
AOUT3
AOUT6
CONTRAST
B DRIVE OUT
R DRIVE OUT
B CUTOFF OUT
G CUTOFF OUT
R CUTOFF OUT
2B OUT
2G OUT
2R OUT
VM OUT
IC1350
GC2V
CLOCK GENERATION PLLS
INPUT PROCESSOR
MOTION ADAPIVE NR
DE-INTERLACER
FRAME RATE CONVERTER
V/H SCALERS
V/H ENHANCER
OUTPUT PROCESSOR
IC1308
MEMORY
64Mbit SDRAM
OSDCNT
CONTRAST CONT.
DRIVE CONT.
CUT OFF CONT.
ADJ.
INPUT
BRIGHT DET.
B-IN
G-IN
R-IN
YM
YS
PULSE SW
OSD-RED
OSD-GREEN
OSD-BLUE
R-OUT
G-OUT
B-OUT
Q1365
Q1321
Q1364
Q1320
Q1354
Q1319
IC1309
RGB PROCESSOR
DG-BOARD
LG1
VMOUT
GOUT
Q902
Q903
Q908
Q951
Q953
Q955
Q952
Q954
Q956
LG7
VM COIL(B)
LG6
VM COIL(G)
LG5
VM COIL(R)
LG-BOARD
TPLG1
JK351
Q373
Q375
Q376
CRT GREEN
LR2
Q353
Q355
Q356
TPLR1
CRT RED
LR-BOARD
LB2
Q393
Q395
Q396
TPLB1
CRT BLUE
LB-BOARD
1

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Video Block Diagram

TX-51P800X/HM/HQ,TX-43P800X/HM/HQ/HZ
Video Block Diagram

A-Board
TZTNP020JBV(TX-51P800X/HQ) TZTNP020JAV(TX-51P800HM)
TZTNP040HWV(TX-43P800X/HQ/HZ) TZTNP010HWV(TX-43P800HM)


6
5
4
3
2
1
TNPH0551
SEE REVERSE FOR ORDER NO.
A3
PbF

TX-51P800X/HQ
A-BOARD TZTNP020JBV

TX-51P800HM
A-BOARD TZTNP020JAV

TX-43P800X/HQ/HZ
A-BOARD TZTNP040HWV

TX-43P800HM
A-BOARD TZTNP010HWV

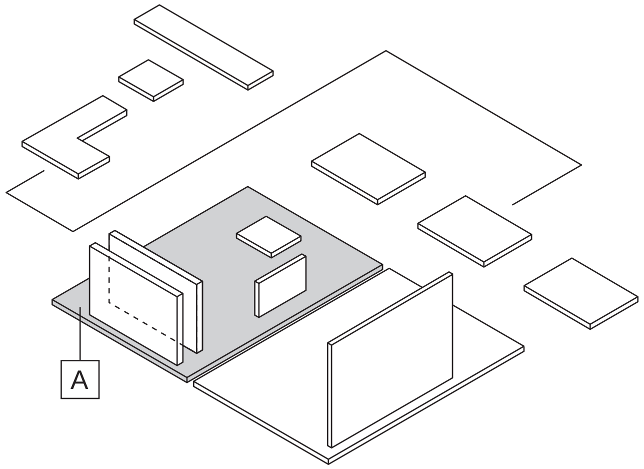
TX-51P800X/HQ
A-BOARD TZTNP020JBV

TX-51P800HM
A-BOARD TZTNP020JAV

TX-43P800X/HQ/HZ
A-BOARD TZTNP040HWV

TX-43P800HM
A-BOARD TZTNP010HWV

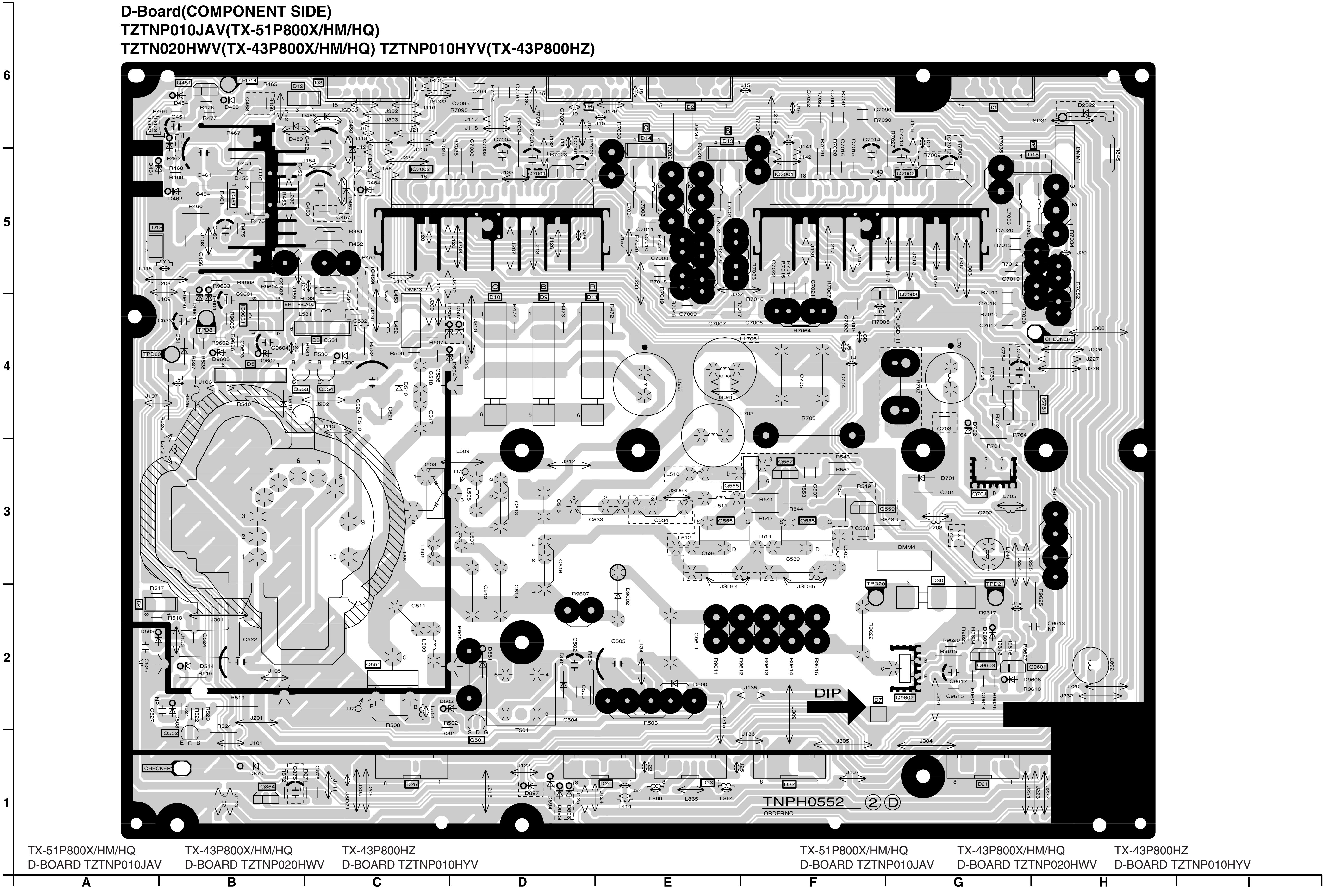
A
B
C
D
E
F
G
H
I



Parts Location

A-BOARD							
IC		**TRANSISTOR**		Q2311	B-5	**TP**	
IC051	F-5	Q001	G-6	Q2312	B-5	TPA2	E-3
IC052	F-5	Q002	F-5	Q2313	C-5	TPA4	E-3
IC831	D-2	Q051	F-6	Q2314	D-5	TPA5	E-2
IC1001	C-4	Q052	E-6	Q2315	C-5	TPA6	B-1
IC1002	B-3	Q463	F-2	Q2316	C-5	TPA7	C-1
IC1003	D-6	Q1001	C-2	Q7301	D-2	TPA12	H-6
IC1004	E-5	Q1002	B-2	Q7701	F-3	TPA13	E-6
IC1005	B-2	Q1004	B-2	Q7702	F-3	TPA17	G-3
IC1006	B-2	Q1005	B-1	Q7703	F-2	TPA18	G-2
IC1109	B-2	Q1006	G-2	Q7704	E-3	TPA19	B-2
IC2001	F-5	Q1007	B-1	Q7705	E-2	TPA20	D-5
IC2002	G-4	Q1008	D-1	Q7706	E-2	TPA21	D-5
IC2003	F-4	Q1020	D-6	Q7707	D-3	TPA22	D-5
IC2301	B-5	Q1021	D-6	Q7708	E-2	TPA23	D-5
IC2305	D-4	Q1022	C-6	Q7709	D-3	TPA24	A-1
IC2702	G-2	Q1050	B-3	Q7710	E-4	TPA26	E-4
IC2703	E-2	Q1051	B-2	Q7711	E-4	TPA27	B-3
IC2704	G-2	Q1052	E-5	Q7712	E-3	TPA28	C-5
IC7301	F-2	Q2001	H-4	Q7713	E-4	TPA29	B-6
IC7302	D-1	Q2002	H-4	Q7714	E-3	TPA30	C-6
IC7702	E-4	Q2003	H-4	Q7715	E-4	TPA31	C-5
IC7703	E-4	Q2004	H-4	Q7716	E-4	TPA32	H-2
		Q2006	G-5	Q7717	F-3	TPA33	H-6
		Q2007	G-6	Q7718	F-3	TPA34	F-2
		Q2008	G-6	Q7719	F-2	TPA35	G-2
		Q2009	G-1	Q7720	E-3	TPA36	E-2
		Q2010	F-1	Q7721	E-2	TPA37	F-2
		Q2011	F-1	Q7722	E-2	TPA38	F-2
		Q2013	G-1	Q7723	E-3	TPA39	D-2
		Q2043	B-5	Q7724	E-2	TPA40	D-2
		Q2301	B-5	Q7725	E-2	TPA41	D-2
		Q2303	D-4	Q9301	D-1	TPA42	D-2
		Q2305	G-4	Q9302	E-4	TPA43	D-2
		Q2306	G-4			TPA47	G-2
		Q2307	B-4			TPA48	G-3
		Q2310	D-4			TPA49	G-3

D-Board(COMPONENT SIDE)
TZTNP010JAV(TX-51P800X/HM/HQ)
TZTN020HWV(TX-43P800X/HM/HQ) TZTNP010HYV(TX-43P800HZ)


6
5
4
3
2
1
DIP
TNPH0552 ② D
ORDER NO.
CHECKER
CHECKER2
DMM1
DMM2
DMM3
DMM4
IC7001
IC7002
T501
T551
A
B
C
D
E
F
G
H
I

TX-51P800X/HM/HQ
D-BOARD TZTNP010JAV

TX-43P800X/HM/HQ
D-BOARD TZTNP020HWV

TX-43P800HZ
D-BOARD TZTNP010HYV

TX-51P800X/HM/HQ
D-BOARD TZTNP010JAV

TX-43P800X/HM/HQ
D-BOARD TZTNP020HWV

TX-43P800HZ
D-BOARD TZTNP010HYV